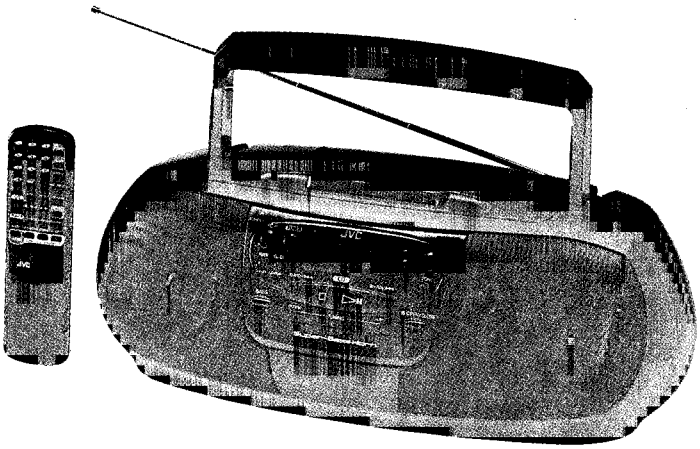
JVC

SERVICE MANUAL

CD PORTABLE SYSTEM

RC-QS11 B/E/EN/G/GI



COMPACT disc DIGITAL AUDIO

Area Suffix	
B	U.K.
E	Continental Europe
G	Germany
GI	Italy
EN	North Europe

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No. 1899
May 1994

1. Safety Precautions

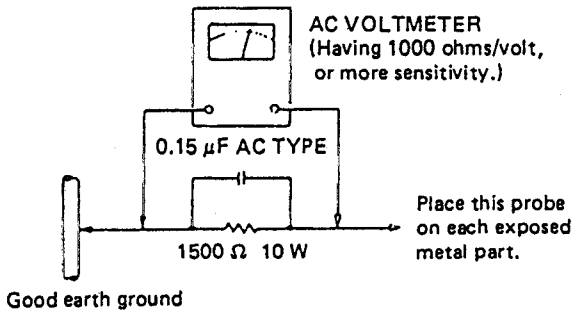
1. The design this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacture's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety — related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of service manual. Electrical components having such features are identified by (⚠)on the schematic diagram and parts list in the service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps , tubings, barriers and the like to be separated from live parts, high temperature parts, mpving parts and or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after reassembling.
5. Leakage current check (Electrical shock hazard testing)

   After re — assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock. Do not use a line isolation transformer during this check.

   • Plug the AC line cord directly into the AC outlet. using a"Leakage current tester", measure the leakage current from each exposed metal part of the cabinet, particulary any exposed metal part having a return path to the chassis, to a known good earth ground. Any leakage current must not exposeed 0.5mA AC(r.m.s.)

   • Alternate check method

   Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 ohms 10W resistor paralleled by a 0.15 μ F AC type capacitor between an exposed metal part and a known good earth ground. Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC(r.m.s.).This corresponds to 0.5mA AC(r.m.s.).

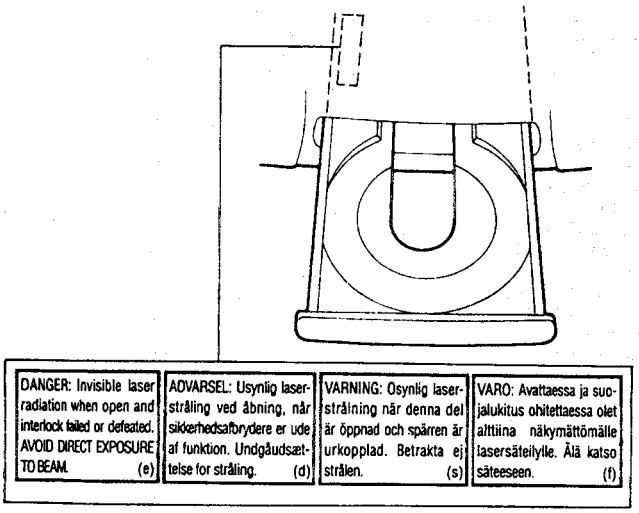

AC VOLTMETER
(Having 1000 ohms/volt, or more sensitivity.)
0.15 μF AC TYPE
1500 Ω 10 W
Place this probe on each exposed metal part.
Good earth ground

Warning (UK ONLY)

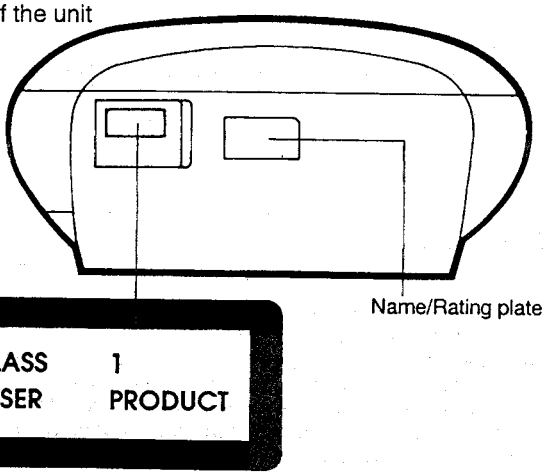
1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintaintaind.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

IMPOPORTANT FOR LASER PRODUCTOS PRECAUTIONS

1. CLASS 1 LASER PRODUCT
2. **DANGER:** Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION:** Do not open the rear cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
4. **CAUTION:** The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent the emission of radiation when the CD holder is open. It is dangerous to defeat the safety switches.
5. **CAUTION:** Use of controls for adjustments and the performance of procedures other than those specified herein may result in exposure to hazardous radiation.
6. **CAUTION:** The laser is able to function, if safety switches out of function. The laser light is invisible, avoid exposure, do not disassemble the laser unit, but replace the complete unit.


DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)
ADVARSEL: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgåudsættelse for stråling. (d)
VARNING: Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. (s)
VARO: Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)

•Bottom of the unit



Name/Rating plate

Obs:
Apparaten innehåller laserkomponent av högre laserklass än klass 1.

Safety precaution about RC – QS11

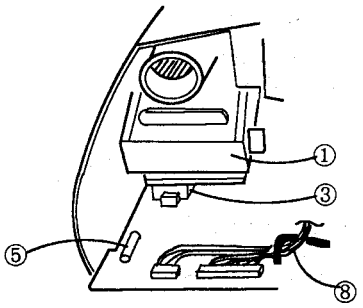
① Confirm the following marking on the power transformer and the specified tightening torque of the screws retaining the power transformer.
Power transformer: Part No. VTP57P2-12D

② Confirm the following marking on the power cord and visually check its faultlessness in the appearance.

	B version	E/EN version	G/GI version
Power cord	BS6500	◁VDE▷	◁VDE▷
Attachment plug	KP-610	KP-419C	KP-419C
Connector plug	KS-15F	KS-15F	KS-15F

③ Confirm the following marking on the AC socket and make sure that it is tightly retained to the P. C. board to avoid the circuit pattern from damage.

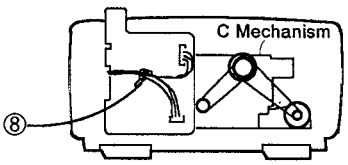
	B version	E/EN version	G/GI version
AC socket	HSC1466	HSC1466	HSC1466



④ Concerning the primary terminals and the adjacent secondary terminals on the P. C. board, confirm that solders don't spread out of the soldering rounds.

⑤ For respective fuses, make sure that they are tightly set in the fuse holder besides confirmation of the rating, T3.15AL 250 V marks on the fuse cap as well as the fuse indications on the P. C. board before installation.

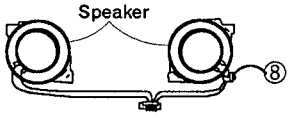
	Fuse Rating & Indication on P.C.B.		
Ref. No.	B version	E/EN version	G/GI version
F902	3.15 A/250 V	3.15 A/250 V	3.15 A/250 V



⑧ Confirm that wires are tightly fixed or clamped in the specic positions (at 3 points) to secure them apart from the live parts, moving parts, hot parts and sharp edges.

⑩ The following are heating parts, particularly, those in the box must be managed as flammable parts. Confirm that they are lifted up and are not tilting.

IC304, Q911, Q903, R102, R201, IC701, IC502, RA341, Q921,



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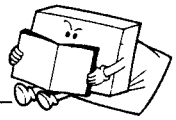

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WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

FEATURES

1. **One-touch operation (COMPU PLAY) (only when AC power is used)**
   - When a source button (CD, tape, or tuner) is pressed, the unit's power is turned on and initiates playback even when the power is set to STANDBY.
2. **29-key remote control unit opens and closes the motor-driven CD tray and operates the usual CD and tuner functions**
   - The remote control controls power ON/OFF switching, volume control, tone control and Bass boost ON/OFF switching.
3. **Multi-function CD player**
   - CD player with program play of up to 20 tunes/repeat play/intro play function.
4. **2-Band digital synthesizer tuner with 30-station (15 FM and 15 AM) preset capability**
   - Seek/manual tuning.
   - Auto preset tuning.
5. **Bass boost (S.BASS) circuit for low-frequency sound reproduction**
6. **Timer/Clock function**
   - Timer on/off with preset volume function.
   - Wake-up volume setting with 25 different levels.
   - Sleep timer can be set for up to 120 minutes.

SPECIFICATIONS

Compact disc player section

Type	:	Compact disc player
Signal detection	:	Non-contact optical pickup
Number of channels	:	2 channels
Frequency range	:	20 Hz – 20,000 Hz
Signal-to-noise ratio	:	76 dB
Wow & flutter	:	Less than measurable limit

Radio section

Frequency ranges	:	FM 87.5 – 108 MHz AM: 522 – 1,629 kHz
Antennas	:	Telescopic antenna for FM Ferrite core antenna for AM

Tape deck section

Track system	:	4-track 2-channel stereo
Motor	:	Electronic governor DC motor (capstan x 1)
Heads	:	Hard permalloy head for recording/playback, Magnetic head for erasure
Frequency response	:	70 - 12.500 Hz (with normal tape)
Wow and flutter	:	0.15 % (WRMS)
Fast wind time	:	Approx. 120 sec (C-60 cassette)

General

Speaker	:	10 cm x 2
Power output	:	Max. 15 W (7.5 W + 7.5 W) at 3 Ω 9 W (4.5 W + 4.5 W) at 3 Ω (10 % THD)
Output jacks	:	Headphones (0 – 24 mW/32 Ω) (matching impedance 16 Ω – 1 kΩ)
Power supply	:	AC 240 V, 50/60 Hz (RC-QS11B) AC 230 V, 50/60 Hz (RC-QS11GI/EN) DC 12 V ("R20" x 8)
Power consumption	:	23 W (with POWER SW ON) 2 W (with POWER SW STANDBY)
Dimensions	:	430 (W) x 162 (H) x 243 (D) mm including knobs
Weight	:	Approx. 4.7 kg with batteries Approx. 3.9 kg without batteries
Accessories provided	:	AC power cord x 1 Remote control unit x 1 (RM-RXQ1002) Battery "R6" x 2 (for the remote control)

Design and specifications are subject to change without notice.

Instructions (Extract)

IMPORTANT FOR LASER PRODUCTS

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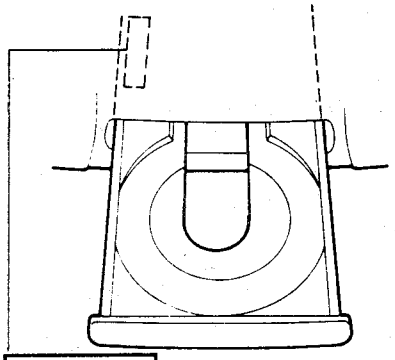
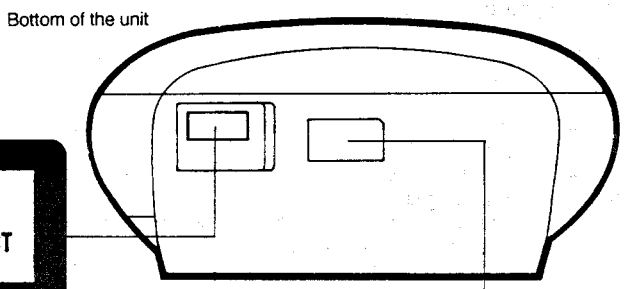
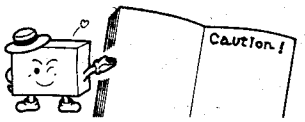


DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)

CLASS 1
LASER PRODUCT

Obs:
Apparaten innehåller laser-komponent av högre laserklass än klass 1.





SAFETY PRECAUTIONS

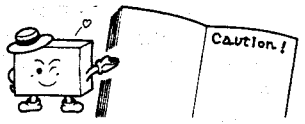
Prevention of Electric Shocks, Fire Hazards and Damage

1. Even when the POWER switch is set to STANDBY, a very small current will flow. To save power and for safety when not using the unit for an extended period of time, disconnect the power cord from the household AC outlet.
2. Do not handle the power cord with wet hands.
3. When unplugging from the wall outlet, always grasp and pull the plug, not the power cord.
4. Consult your nearest dealer when damage, disconnection, or contact failure is found with the cord.
5. Do not bend the cord sharply, or pull or twist it.
6. Do not modify the power cord in any manner.
7. Do not remove screws to disassemble the unit and do not touch anything inside the unit to avoid accidents.
8. Do not insert any metallic objects into the unit.
9. Unplug the power cord when there is a possibility of lightning.
10. If water gets inside the unit, unplug the power cord from the outlet and consult your dealer.
11. Do not block the ventilation holes of the unit so that heat can escape.
    Do not install the unit in a badly ventilated place.
12. Since the RC-QS11 uses a motor-driven CD tray, make sure your hand or other object does not obstruct tray movement.

Power button
When the power cord is connected to a household AC outlet, the power indicator is lit red, indicating STANDBY mode (this indicator does not light when DC power is supplied). When the power button is pressed, the indicator turns green showing that the power is on (this indicator lights with both AC and DC power supplies).

When this unit is plugged into an AC outlet, it consumes a small current to operate the remote control and timer, or to back up the memory of the microprocessor, even when the POWER button is set to STANDBY.

HANDLING PRECAUTIONS



Do not use this unit in direct sunlight or leave the unit in closed automobiles (or yachts, etc.) where it would be exposed to high temperatures above 40°C (104°F).

1. **Avoid installing in the following places**
   - Where it could be subject to vibrations.
   - Where it is excessively humid, such as in a bathroom.
   - Where it could be magnetized by a magnet or speaker.
2. **Pay attention to dust**
   Be sure to close the CD tray so that dust does not collect on the lens.
3. **Condensation**
   In the following cases, condensation may occur on the lens, in which case the unit may not operate correctly.
   - In a room where a heater has just been switched on.
   - In a place where there is smoke or high humidity.
   - When the unit is moved directly from a cold to a warm room.

   In these cases, set the POWER switch to ON and wait 1 or 2 hours before use.
4. **Volume setting**
   Compact discs produce very little noise compared with analog records. When the volume control of an amplifier is adjusted by listening to the noise as is done with analog records, the speakers could be damaged by the sudden increase of output when the music starts. Therefore, turn down the volume before starting and adjust as required while playing a CD.

5. **Safety mechanism**
   This unit incorporates a safety interlock mechanism which switches the laser beam on and off, so that when the disc tray is open, the laser beam stops automatically.
6. **Do not place cassette tapes, etc. near the speakers**
   Since there are magnets in the speakers, do not place tapes or magnetic cards on them as recorded data could be erased.
7. **Keep this unit away from your TV**
   When this unit is used near a TV, the TV picture could be distorted. If this happens, move this unit away from the TV. If this does not correct the situation, avoid using this unit when the TV is turned on.
8. **Cleaning the cabinet**
   If the cabinet gets dirty, wipe it with a soft, dry cloth. Never use benzine or thinner as these could damage the surface finish.
9. **When listening with headphones**
   - Do not listen at high volumes as it could damage your hearing.
   - For safety, do not drive while listening to this unit.
10. **Carrying handle**
    Do not raise or lower the carrying handle with the telescopic antenna extended, to avoid damaging the antenna. Place the carrying handle so that it does not interfere with operation.

POWER SUPPLY

A. Operation on household AC

- Connect the AC power cord

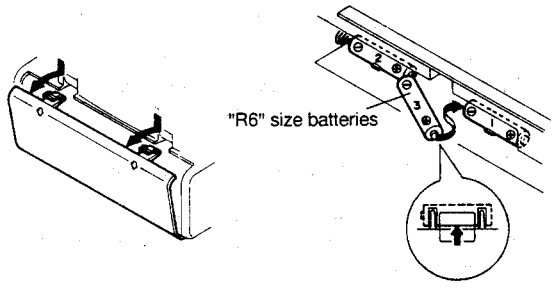
CAUTIONS:
1. **ONLY USE WITH JVC POWER CORD PROVIDED WITH THIS UNIT TO AVOID MALFUNCTION OR DAMAGE TO THE UNIT. REMOVE BATTERIES WHEN USING THE POWER CORD.**
2. **BE SURE TO UNPLUG THE POWER CORD FROM THE OUTLET WHEN GOING OUT OR WHEN THE UNIT IS NOT IN USE FOR AN EXTENDED PERIOD OF TIME.**

B. Batteries for memory back-up system

Batteries for timer/preset station memory

It is recommended that batteries are loaded to prevent the preset station memory and timer from being erased when there is a power failure, or when the AC power cord is disconnected.

- **Loading batteries**
  Load three "R6" size batteries (optional) into the battery compartment.



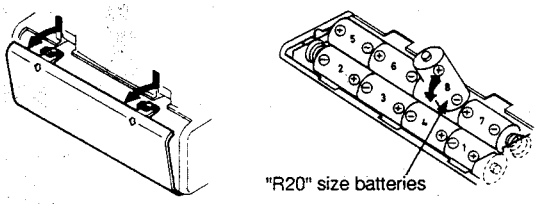
- When removing the batteries, push from the bottom as shown by the arrow.

Notes:
- The three "R6" size batteries supply the power to the memory back-up system which prevents the contents of memory being lost when there is a power failure, or the AC power cord is disconnected. Battery power is not consumed when the AC power cord is connected to the household AC outlet.
  (When the memory function is activated, the time is not displayed to reduce the power consumption.)
- When the AC power cord is not connected, the batteries should be replaced with new ones approximately every six months. (Connect the AC power cord when replacing batteries in order to backup the memory.)

C. Operation on batteries

- **Loading batteries**

1. Open the battery cover by pulling it toward you while pressing the sections marked by the arrows.
2. Insert eight "R20" size batteries as shown in the diagram.
   * Be careful to insert the batteries with the ⊕ and ⊖ terminals positioned correctly.
3. Replace the cover.



Checking batteries

When the tape speed or output sound decreases, or CD playback is intermittent, replace all batteries with fresh ones.
When making an important recording, use new batteries (preferably alkaline batteries with a longer service life) to avoid any possible failure.

- For better battery usage
  Continuous operation of the unit causes the battery power to be consumed quicker than noncontinuous operation.
  Operation of the unit in a cold place causes the battery power to be consumed more quickly than in a warm place.

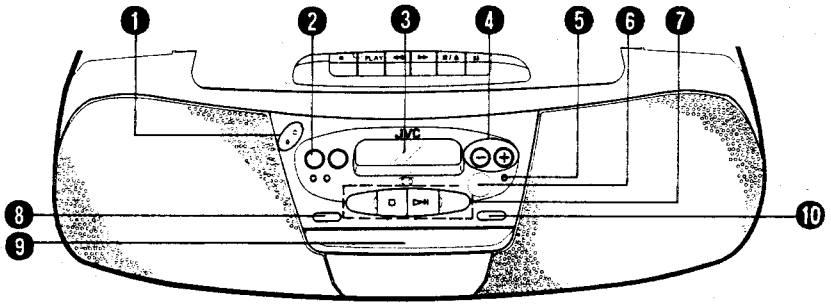
CAUTIONS:
- **WHEN NOT USING THE UNIT FOR A LONG TIME (MORE THAN TWO WEEKS) OR WHEN ALWAYS USING HOUSEHOLD AC, REMOVE THE BATTERIES TO AVOID A MALFUNCTION OR DAMAGE TO THE UNIT.**
- **WHEN THE JVC POWER CORD PROVIDED WITH THIS UNIT IS CONNECTED, THE POWER IS AUTOMATICALLY SWITCHED FROM THE BATTERIES TO THE HOUSEHOLD AC EVEN WHEN THE BATTERIES ARE LOADED. HOWEVER, REMOVE THE BATTERIES WHEN USING THE POWER CORD.**

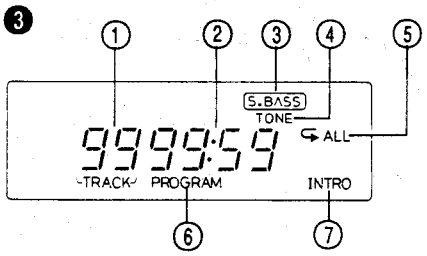
CAUTIONS WHEN USING BATTERIES:
When batteries are used incorrectly, it may result in the leakage of chemicals from the batteries or they may explode. The following care should be taken;
- Check that the positive (+) and negative (-) terminals of the batteries are positioned correctly and load them as shown in the diagram.
- Do not mix new and old batteries together, or mix different types of batteries.
- Do not try to recharge non-rechargeable batteries.
- Remove the batteries when the unit is not to be used for an extended period of time.

If chemicals from the batteries come in contact with your skin, wash them off immediately with water. If chemicals leak onto the unit, clean the unit completely.

NAMES OF PARTS AND THEIR FUNCTIONS

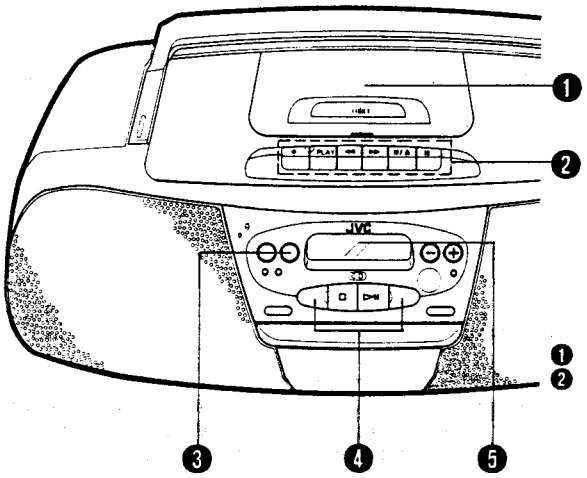
CD player/General section

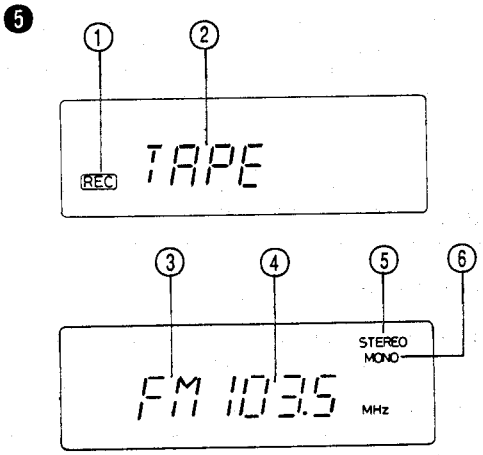




❶ POWER indicators
GREEN: ON
RED: STANDBY
❷ POWER button
❸ Display window
① Function/Track number display
② Playback time display
③ Bass boost (S.BASS) indicator
④ TONE indicator
⑤ Repeat playback indicator (⊂ ALL)
⑥ PROGRAM mode indicator
⑦ INTRO scan indicator
❹ VOLUME buttons
+: Use to increase the volume
–: Use to decrease the volume.
(control range from VOL 0 to VOL 25)
❺ TONE button
To set the tone level, press this button and adjust using the VOLUME button. The level setting ranges are from -6 to 6.
❻ REMOTE SENSOR section
❼ CD operation buttons
SEARCH (⏮) button
Stop (□)/clear button
Play/pause (▷II)
SEARCH (⏭) button
❽ BASS button
ON: The S.BASS indicator will light. Set to this position to listen to Bass boost sound.
OFF: The S.BASS indicator goes out. Set to this position when Bass boost sound is not required.
❾ CD tray
❿ CD tray OPEN/CLOSE (⏏) button

Deck/Tuner section



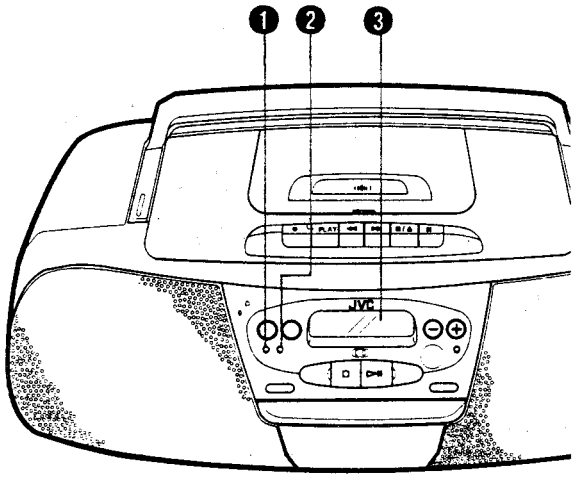


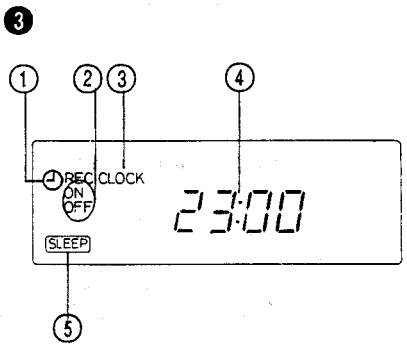
❶ Cassette holder
❷ Cassette operation buttons (from left to right)

○REC	: Press this button with PLAY ► button to start recording.
PLAY ►	: Press to play the tape.
◄◄ REW	: Press to rewind the tape rapidly.
►► FF	: Press to wind the tape forward rapidly.
■/⏏ STOP/EJECT	: Press to stop the tape. Pressing this button when the tape has stopped opens the cassette holder.
II PAUSE	: Press to stop the tape momentarily. Press again to release the pause mode.

❸ TUNER/Band (FM/AM) button
Press to select TUNER mode.
Press to select the band (FM/AM).
❹ TUNING buttons (UP/DOWN)
❺ Display window
① Recording indicator (REC)
② Tape mode display
③ Band indicator (FM/AM)
④ Radio frequency display
Preset station display
⑤ STEREO indicator
⑥ MONO indicator

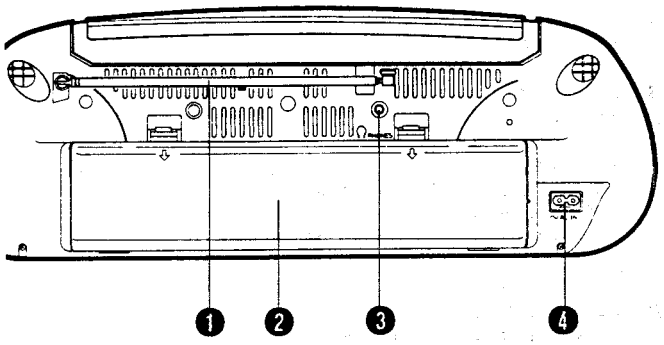
Clock/Timer section





❶ TIMER button
ON/OFF button
❷ CLOCK button
ENTER button
❸ Display window
① Timer mode indicator
② Timer indicator (ON/OFF)
③ CLOCK indicator
④ Time display
⑤ SLEEP indicator

Rear panel



❶ Telescopic antenna
❷ Battery compartment cover
❸ Headphones jack (PHONES) (3.5 mm dia. stereo mini)
Connect headphones (with impedance 16 Ω – 1 kΩ) to this jack. The speakers are automatically switched off when the headphones are connected.
❹ AC IN (AC Input) jack

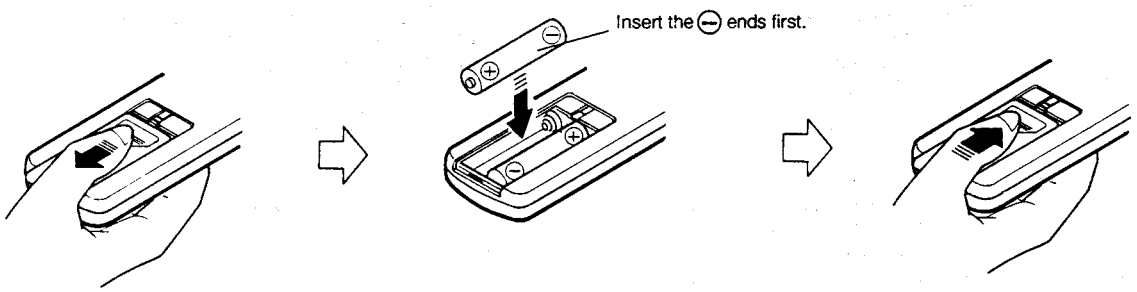
REMOTE CONTROL UNIT

Preparation before use

- **Installing batteries in the remote control unit**

1. Remove the battery cover from the back of the remote control unit.
2. Insert two "R6" size batteries.
   - Insert the batteries with the ⊕ and ⊖ terminals matching the indication inside the battery compartment.
3. Replace the cover.

- **Battery replacement**
When the remote control operation becomes unstable or the distance from which remote control is possible becomes shorter, replace the batteries with new ones.

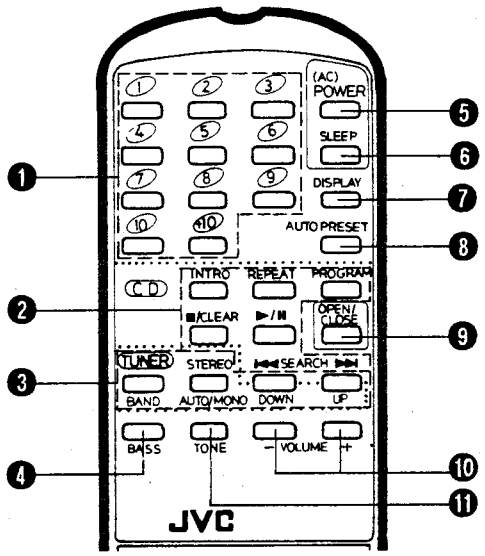


Using the remote control unit

To use the remote control unit, point it at the REMOTE SENSOR and press the buttons gently and firmly. Remote control operation is possible within about 7 m (approx. 23 ft). However, since the remote control range is less when the unit is used at an angle, use directly in front of the REMOTE SENSOR, as far much possible.
Do not expose the REMOTE SENSOR to strong light (direct sunlight or artificial lighting) and make sure that there are no obstacles between the REMOTE SENSOR and the remote control unit.

The following operations can be performed using the remote control unit.

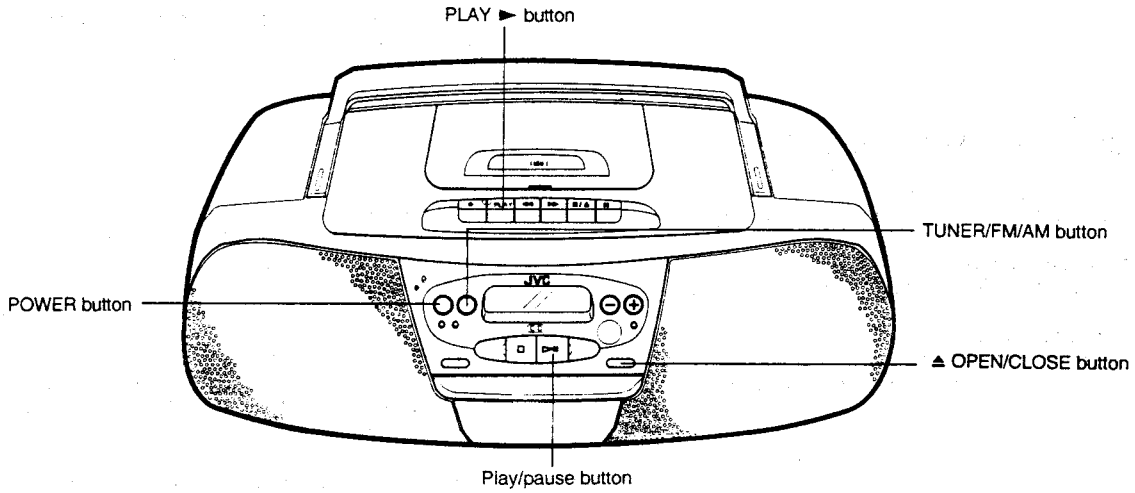
- **Check the functions of the operation buttons carefully and operate them correctly.**



❶ Track (tune) number buttons (No.1 to No.10, +10)
Preset station buttons (No.1 to No.10, +10)
❷ CD operation buttons
INTRO : Intro scan button
REPEAT : Repeat playback button
PROGRAM : Program mode button
■/CLEAR : Stop/clear button
►/II : CD mode/play/pause button
I◄◄ SEARCH ►►I : To scan to the beginning of a tune and to start forward or reverse search.
❸ TUNER operation buttons
BAND : To select tuner mode and to select the band (FM/AM).
STEREO AUTO/MONO : To select FM mode.
DOWN/UP : To tune to a broadcast.
❹ BASS button
❺ POWER (AC) button
- When power is supplied from the batteries, even when the button is pressed, the RC-QS11 will not be switched on. Switch on the POWER button of the main unit first, then perform operations.

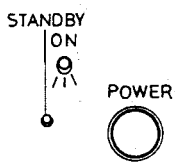
❻ SLEEP button
❼ DISPLAY button
Use to display the current time.
❽ AUTO PRESET button
❾ CD tray OPEN/CLOSE button
❿ VOLUME buttons (+, –)
⓫ TONE button

SWITCHING THE POWER ON/OFF



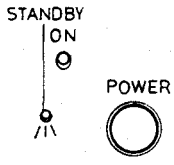
Switching the power on/off

- Switching on:



The green indicator lights.

- Switching off:



The red indicator lights. (The indicator does not light when DC power is supplied.)

COMPU PLAY (only when AC power is used)

Even when the power is set to STANDBY, pressing the button shown below switches on the power and selects the source.

	Function mode	Operations
	CD	When this button is pressed with a CD loaded, CD playback begins.
	TAPE	When this button is pressed with a tape loaded, tape playback begins.
	TUNER	When this button is pressed, the tuner is engaged.

When the CD tray OPEN/CLOSE (⏏) button is pressed, the source sound does not switch over, the CD tray can open or close.

When the timer display (🕘) is shown, the power of this unit is not switched on even when the PLAY ► button is pressed.

Notes:

1. When switching off the power, be sure to press the POWER button. (When the POWER is switched off with the CD tray open, the CD tray is closed and then the power is switched off.)
2. The COMPU PLAY button on the remote control has the same function as the RC-QS11.
3. Position the front panel away from you when carrying this unit to avoid accidentally pressing the POWER button.

CONCERNING COMPACT DISCS

Since dirty, damaged and warped discs may damage the unit, care should be taken of the following:

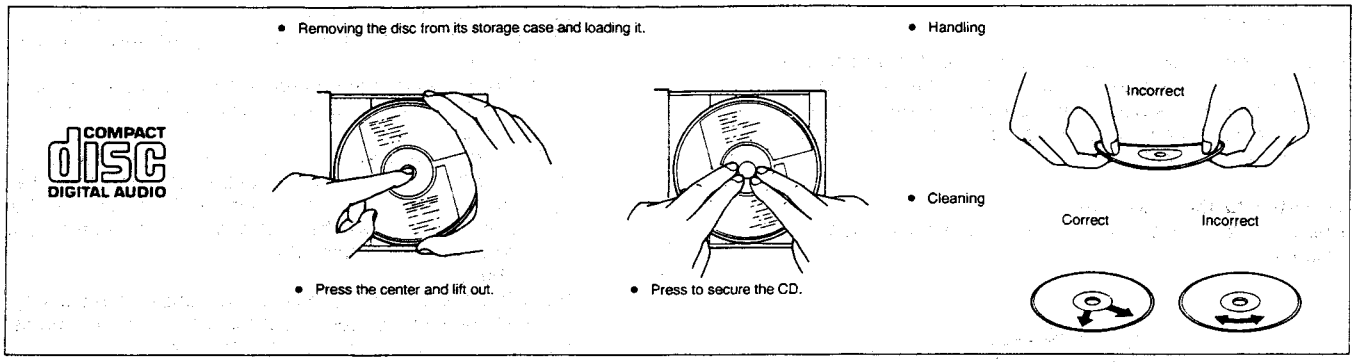
1. **Usable compact discs**
   Use compact discs with the mark shown.

2. **Notes on handling discs**
   - Do not touch the reflective recorded surface.
   - Do not stick anything to or write anything on the label side.
   - Do not bend compact discs.

3. **Storage**
   - After removing a disc from the unit, be sure to put it back in its case.
   - Do not expose discs to direct sunlight, high temperatures from a heater, etc., high humidity, or dust.

4. **Cleaning discs**
   Before loading a disc, wipe off any dust, dirt or fingerprints with a soft cloth. Discs should be cleaned by wiping radially, from the center to the edge.

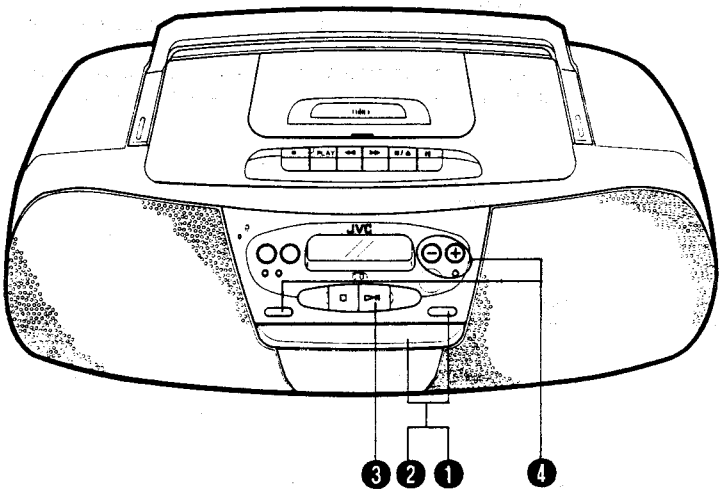
- **Never use thinner, benzine, record cleaner or antistatic spray.**



PLAYING COMPACT DISCS

Playing an entire disc ... The following example assumes a compact disc with 12 tunes and a total playing time of 48 minutes 57 seconds.

Operate in the order shown



❶ Press to open the CD tray. (The power is switched ON when AC power is supplied.)
- When battery power is used, switch on the POWER button first, then perform operations.

❷ Load a disc with the label side facing up. Press to close the CD tray. (The tray can be closed by pressing the ▷II button.)

❸ Press to start play.

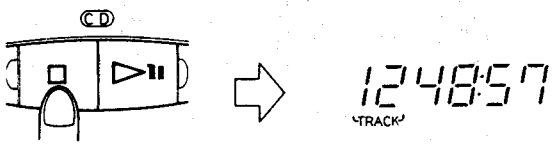
❹ Adjust.

- 8-cm (3-3/16") compact discs can be used in this unit without an adapter.

Note:
When the CD tray is closed by pressing the ▷II button, the CD starts playing as soon as the tray is closed.

To stop play

- **To stop in the middle of a disc**
  During playback, press the □/clear button to stop play.



- The total number of tracks (tunes) and total playing time are displayed.

- **To stop a disc temporarily**
  Press the ▷II button to stop play temporarily and the playing time blinks. When pressed again, play resumes from the point where it was paused.

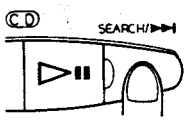
Notes:
- The following indication may be shown when a disc is dirty or scratched, or when the disc is loaded upside down.
  In such a case, check the disc and insert again after cleaning the disc or turning it over.
- When a CD is not loaded in the tray or when "000000" is displayed, the CD tray opens when the ▷II button is pressed.

- **Do not use the unit at excessive high or cold temperatures. The recommended temperature range is from 5°C (41°F) to 35°C (95°F).**
- After playback, unload the disc and close the CD tray.
- If mistracking occurs during play, lower the volume.
- Mistracking may occur if a strong shock is applied to the unit or if is used in a place subject to vibrations (i.e. in a car travelling on a rough road).

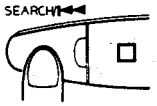
Skip playback

- During playback, it is possible to skip forward to the beginning of the next tune or back to the beginning of the tune being played or the previous tune; when the beginning of the required tune has been located, play starts automatically.

To listen to the next tune ...
Press the ►►I button once to skip to the beginning of the next tune.

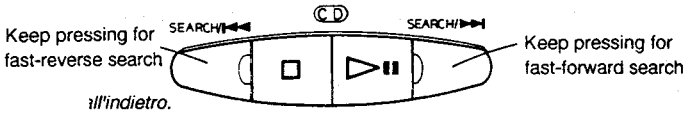


To listen to the previous tune ...
Press the I◄◄ button to skip to the beginning of the tune being played back and press again to skip to the beginning of the previous tune.



Search playback (to locate the required position on the disc)

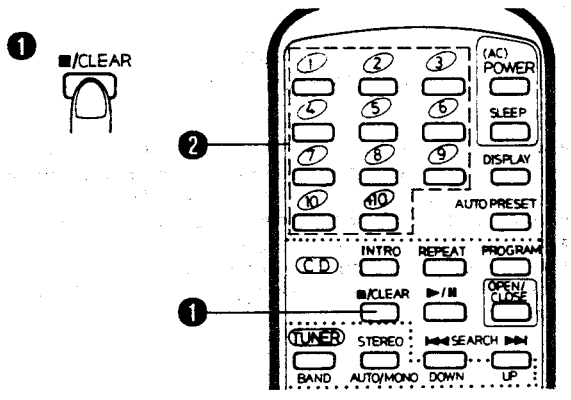
- The required position can be located using fast-forward or reverse search while playing a disc.



- Hold down the button; search play starts slowly and then gradually increases in speed.
- Since low-volume sound (at about one quarter of the normal level) can be heard in the search mode, monitor the sound and release the button when the required position is located.

Direct access playback (using the remote control)

- Pressing any of the track number buttons will start play from the beginning of the designated tune, without your having to press the CD ►/II button. (This function cannot be used during programmed play.)



❶ Press the ■/CLEAR button to set to the CD mode.
❷ Designate the required tune using the track number buttons.
- To designate tune numbers 1 to 10, press the track number button corresponding to the tune (track) number.
- To designate tune number 11 or higher, press the +10 button the required number of times, then the track number button. (Example: To designate the 20th tune, press the +10 button once, then press track number button 10.)

* +10 button:
Each time this button is pressed, the number increases by 10. First press this button to set the 10's digit, then press the track number button to set the 1's digit.

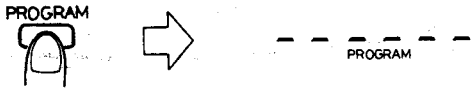
- **To skip to another tune during play**
  When the required track number button is pressed, the display shows the designated track number and play starts from the beginning of the designated tune.

Programmed play (using the remote control)

- Up to 20 tunes can be programmed to be played in any required order.
  The total playing time of programmed tunes is displayed (up to 99 minutes, 59 seconds).
  (Example: When programming the 2nd tune to be played first, the 6th tune next, and then the 12th tune, etc.)

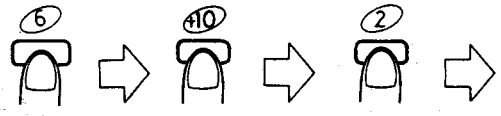
①

②

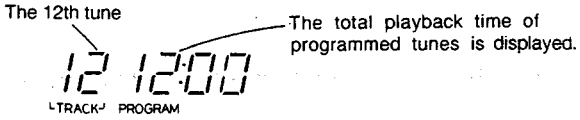


③

④



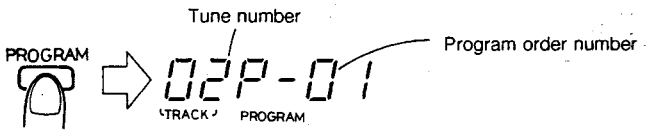
To designate the 12th tune.



⑤

① Press the ■/CLEAR button.
② Press the PROGRAM button to set to the programming mode.
③ Press to designate the required track number.
④ Designate the remaining tunes by pressing the track number buttons.
⑤ Press the ►/II button when programming is completed. Programmed playback starts.

To confirm the details of a program...
Press the PROGRAM button; the tunes making up the program will be displayed in programmed order.



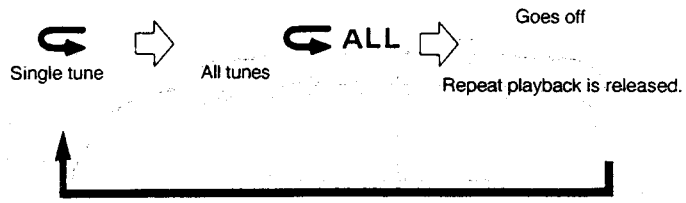
To clear the programmed tunes ...
Press the ■/CLEAR button before playing a disc. During programmed playback, press this button twice. When the CD tray is opened, programmed tunes are cleared automatically.

Notes:
1. If the total playing time of the programmed tunes exceeds 99 minutes 59 seconds, the total playing time indication will go out.
2. Programming of track (tune) number 21 or more is impossible.
3. When performing CD synchro recording or timer playback in "Programmed play" order, step ⑤ above is not required.

Repeat play (using the remote control)

Press the REPEAT button before or during play. A single tune or all the tunes can be repeated.

Whether a single tune or all tunes are to be repeated can be specified. Each time the REPEAT button is pressed, the mode will change from a single tune (⊆), to all the tunes (⊆ ALL), to the clear mode, in this order.



- **Repeat playback of a single tune (⊆)**
  The tune being played back will be heard repeatedly.
- **Repeat playback of all tunes (⊆ ALL)**
  When playing back an entire disc or programmed tunes, all tunes or the programmed tunes will be heard repeatedly.

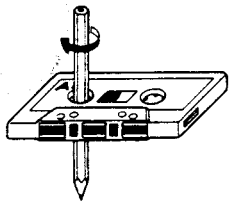
INTRO scan operation (using the remote control)

- Simply press the INTRO scan button to play the first 15 seconds of each tune. The operation is released after playing the introductions of all tunes or all programmed tunes.
- To release the intro scan mode, press the INTRO scan button again and normal playback (or programmed playback) will resume.

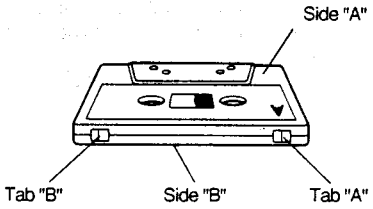
CASSETTE TAPE

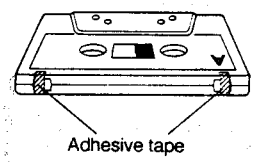
Cassette tape
1. Loose tape may cause trouble. With a pencil, gently tighten the tape as shown.
2. To prevent recordings from being erased accidentally, remove the tab(s) with a screwdriver. Reseal the slots with adhesive tape to erase and re-record after the tabs have been broken off.

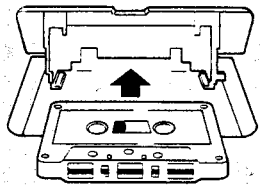
Cassette loading
1. Press the STOP/EJECT (■/≜) button to open the cassette holder.
2. Load a cassette as shown.
3. Close the cassette holder by pressing it gently. Listen for the click that tells you that you've closed the holder securely.



Turn the pencil to tighten the tape.

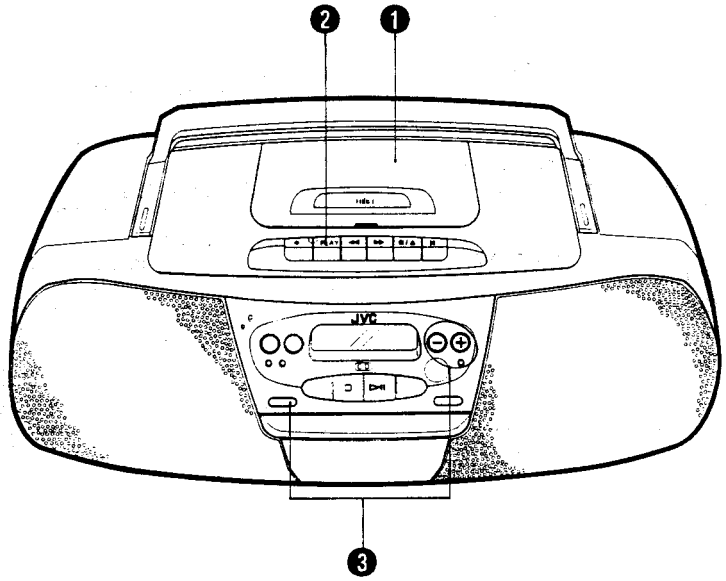






CASSETTE PLAYBACK

Operate in the order shown

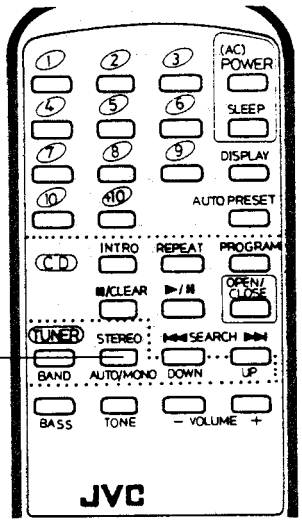


❶ Load a cassette tape.
❷ Press to start playback. (The power is switched on, TAPE mode is engaged and tape playback starts.)
- When battery power is used, switch on the POWER button first, then perform operations.

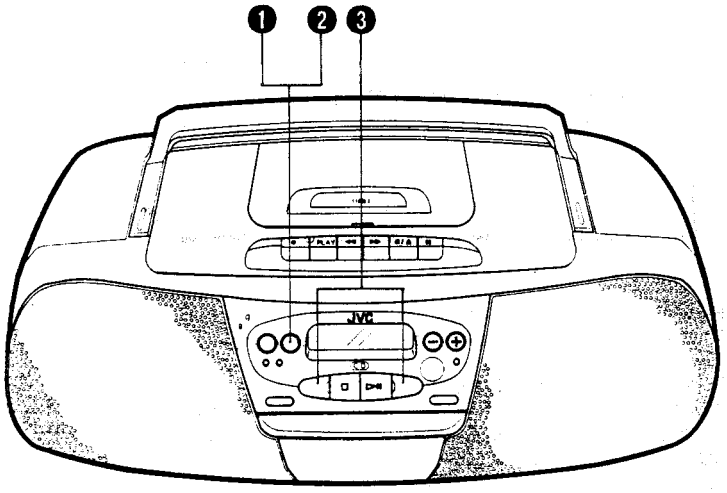
❸ Adjust.

RADIO RECEPTION

Operate in the order shown



STEREO AUTO/MONO button



❶ Press the TUNER/Band (FM/AM) button.
- The power is switched on and the band and radio frequency will be shown in the display.
- When battery power is used, switch on the POWER button first, then perform operations.

❷ Select the band (FM or AM).
❸ Tune to the required station.

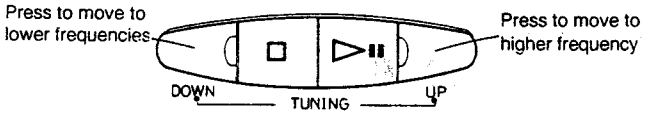
FM mode button (using the remote control unit)

AUTO:
Set to this position when listening to or recording an FM stereo broadcast. The STEREO indicator lights when the FM stereo broadcast is received.

MONO:
Set to this position when FM stereo reception is noisy.

- **Seek tuning**
  Press the UP or DOWN button for one second or more; the unit enters the seek tuning mode and tunes to higher or lower frequencies, and when the broadcast is received, it stops tuning automatically and the broadcast can be heard.

- **Manual tuning**
  Each time the UP or DOWN button is pressed, the unit steps through the current frequency band. Tuning is in steps of 50 kHz for FM and 9 kHz for AM.



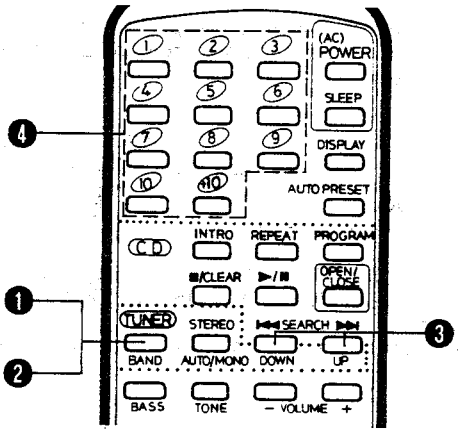
Notes:
- When seek tuning to the required station is not possible because it is broadcasting too weak a signal, press the UP or DOWN button momentarily to perform manual tuning.
- When the power is set to STANDBY, or another mode (TAPE or CD) is selected, the last tuned frequency is stored in memory. When the power is switched on again and TUNER/BAND (FM/AM) button is pressed, the same station will be heard.

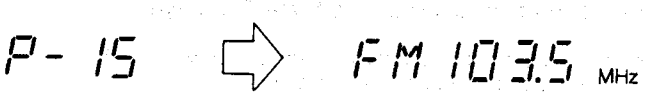
Auto preset tuning (using the remote control unit)

This function scans the current band (FM or AM), detecting frequencies used to broadcast signals, and stores the first 15 frequencies in memory automatically.
- Press the AUTO PRESET button. The frequencies of stations broadcasting signals can be preset automatically in the order of increasing frequency. (15 stations in each band [FM and AM]).

Presetting stations (using the remote control unit)

15 stations in each band (FM and AM) can be preset as follows:
- Example (when presetting an FM station broadcasting at 103.5 MHz to preset button "15")





❶ Press the TUNER/BAND button.
❷ Select the FM band using the TUNER/BAND button.
❸ Tune to the required station.
❹ Press preset button "+10", then "5" for more than 2 sec. (When "15" blinks in the preset station display, the station has been preset.)
- Repeat the above procedure for each of the other stations, using a different preset button each time.
- Repeat the above procedure for the AM band.

- **To change preset stations**
  Perform step ❹ above after tuning to the required station.

Notes:
- The previous preset station is erased when a new station is set as the new station's frequency replaces the previous frequency in memory.
- When listening to an AM broadcast, noise may be heard if the remote control is used.

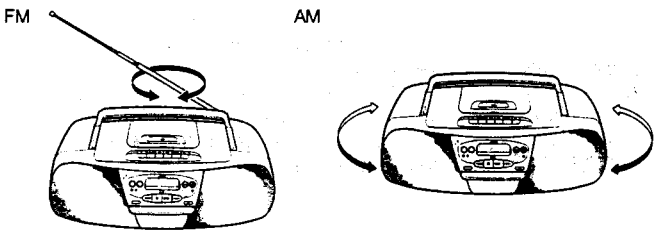
Preset tuning

- The stations must be preset before this operation can be performed.

(using the remote control unit)

① Press the TUNER/BAND button
② Select the required band (FM or AM) using the TUNER/BAND button.
③ Press the required preset station buttons (No.1 – No.10, +10).
- The preset station number and frequency corresponding to the button pressed are shown.

Using the antennas



Note:
The built-in ferrite core antenna can pick up interference from television receivers in the neighborhood and thereby disturb AM reception.

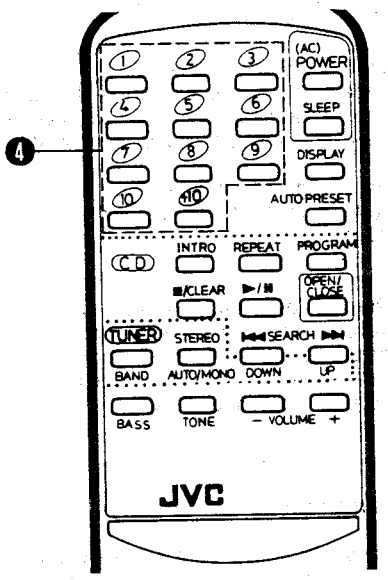
RECORDING

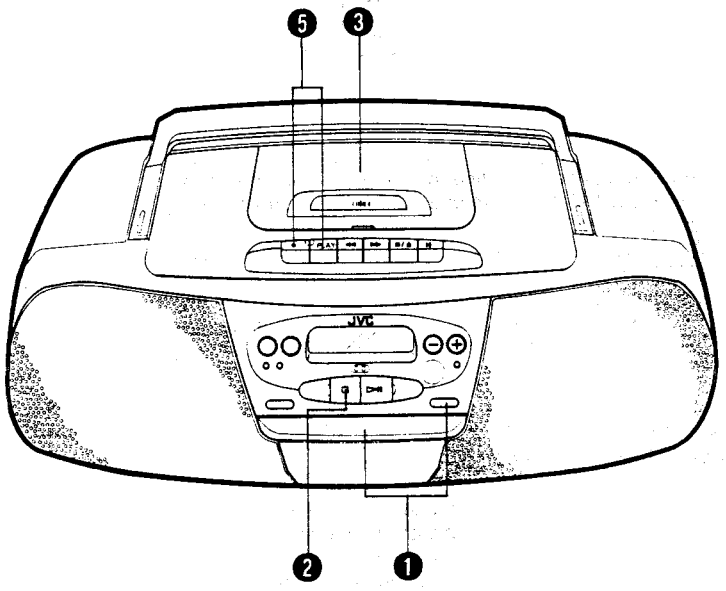
- In recording, the ALC circuit automatically optimizes the recording level; adjustment of the recording level is unnecessary.
- Check that the safety tab on the cassette tape is not broken off.

Synchronized recording with the CD player

- In this system, the CD player starts playback when the cassette deck enters the recording mode.

Operate in the order shown





❶ Load a disc and close the CD tray.
❷ Set CD mode.
❸ Load a cassette with side A facing up. (Wind past the leader tape before starting recording.)
❹ When programmed playback is required, program the required tunes using the remote control. (See page 22.)
- Select tunes with a total playing time which does not exceed the tape's length.

❺ Press the O REC button with the PLAY ► button; synchronized recording will start.

- Non-recorded sections of approx. 4 seconds are automatically left between tunes.
- When the tape reaches the end first, the CD player stops automatically; when the CD player stops first, the tape continues running. In this case, press the ■/≜ STOP/EJECT button to stop the tape.

Note:
This unit has recording/playback characteristics suitable for normal tapes. Normal tapes have different characteristics from CrO_2 and metal tapes.

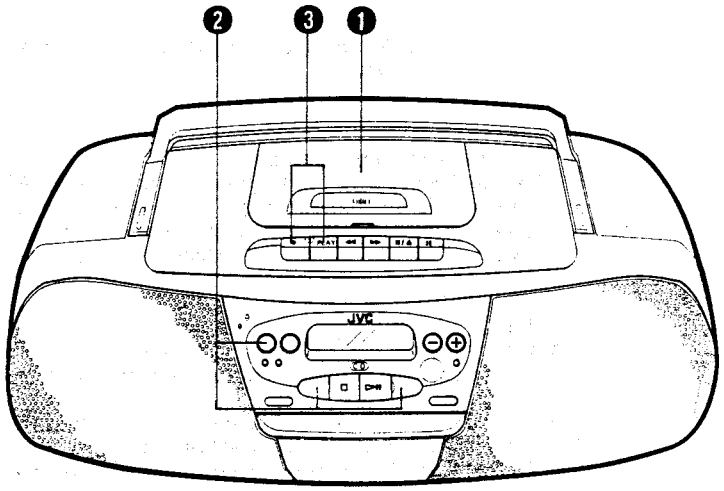
- **When automatic spacing between tunes is not required...**
  Perform the following after finishing the previous operation (❶ to ❹).
  ① Press the ▷II button of the CD player twice. The CD player enters the pause mode.
  ② Press the O REC and PLAY ► buttons simultaneously. Now, the CD player starts playback simultaneously.

Note:
- During CD synchro recording, the ▷II and SEARCH buttons do not function.

It should be noted that it may be unlawful to re-record pre-recorded tapes, records, or discs without the consent of the owner of copyright in the sound or video recording, broadcast or cable programme and in any literary, dramatic, musical, or artistic work embodied therein.

Recording from the radio

Operate in the order shown



❶ Load a cassette with side A facing up.
(Wind past the leader tape before starting recording.)
❷ Press the TUNER/BAND button. Tune to the required station.
❸ Press the O REC button with the PLAY ► button.

- To stop recording temporarily, press the ▮▮ PAUSE button. To resume recording press the ▮▮ PAUSE button again.

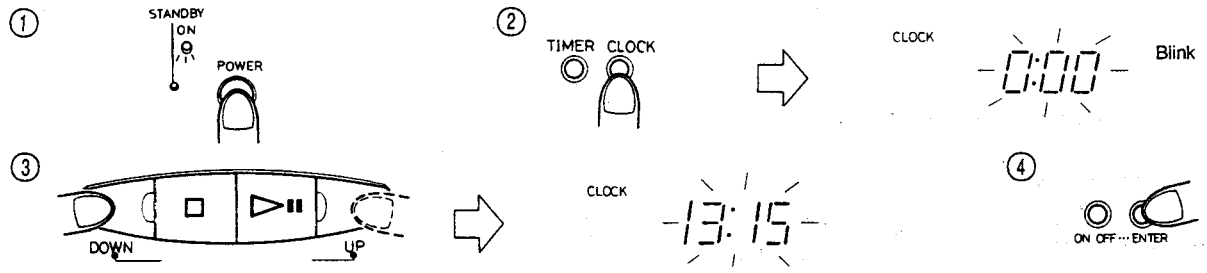
Erasing

When recording on a pre-recorded tape, the previous recording is automatically erased and only the new material can be heard when the tape is played.
To erase a tape without making a new recording...
Lightly press the PLAY ► button of the deck to set to the TAPE mode and press the O REC and PLAY ► buttons together after pressing the stop button.

CLOCK/TIMER ADJUSTMENT

Setting the current time (when the RC-QS11 is used for the first time)

(Example: to set the clock to 13:15.)



① Set the POWER button to ON.
② Press the CLOCK button for 2 seconds or more; "0:00" will blink in the display.
③ Set to 13:15 by pressing the UP/DOWN buttons. (When the buttons are kept pressed, the minute and hour indication changes continuously.)
④ Press the ENTER button; the time will light in the display. And the display returns to the previous function mode.

- **To set to the nearest second...**
  Press the ENTER button when you hear the time signal from a TV or radio.

- **To check the time**
  - When using the remote control unit, press the DISPLAY button. When it is pressed again, the display switches back to the previous display.
  - When using the main unit, if the timer display " 🕘 " is not displayed, press the CLOCK button to display the time for 2 seconds.

- **Power failure**
  When the memory backup batteries are not loaded, a blinking "CLOCK" is displayed — set the current time again.

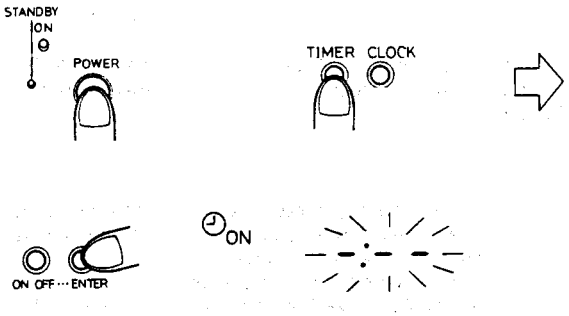
Notes:
- Before performing timer recording or playback, it is necessary to set the current time.

- When the memory backup batteries are loaded, the current time can be maintained even when there is a power failure.
- When the function button is pressed or the volume control is adjusted during Time mode, the clock display changes to the other function's display.

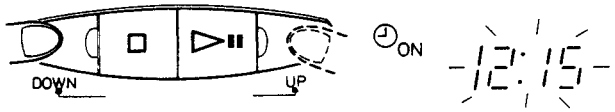
Setting the timer

- The current time must be set before the timer can be used.

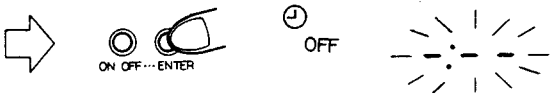
❶ Set the POWER button to on.
❷ Press the TIMER button. (The " ⏲ " indicator lights.)
❸ Press the ENTER button.



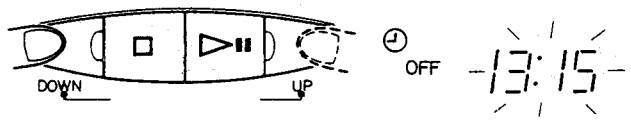
❹ Set the start time
(Example: when the timer start time is set to 12:15.)



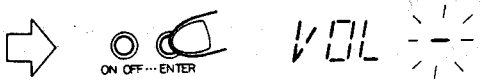
- Press to set the start time.



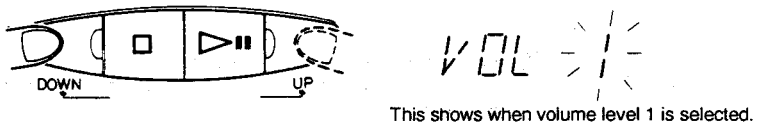
❺ Set the stop time
(Example: when the timer stop time is set to 13:15.)



- Press to set the timer off time.



❻ Set the volume.



This shows when volume level 1 is selected.

- The selected volume is set.

The playback level is determined by the position of VOLUME control.

When the UP button is used to select the volume.

VOL - → VOL 0 → VOL 15 → VOL 25

The volume decreases to zero at the timer start time, and the sound fades in.

- When the volume setting is set to "VOL -" (volume level is not specified), the timer playback volume is set to that of before setting the timer.

- The unit enter the previously engaged mode and timer setting is complete.

• To check the timer setting
When the timer display (⏲) lights, each time the ENTER button is pressed, details of the timer setting can be checked. Make sure the previously engaged mode is shown in the display, otherwise the timer is not completely set.

Notes:
- When the timer is set incorrectly or the correct mode is not selected, perform "Setting the timer" from the beginning.
- Load the memory backup batteries to prevent the timer program from clearing in a power failure. (See page 6.)
- Do not press the ENTER button to check the timer program during timer operation. If done so, the power does not switch off automatically at the preset timer-off time.

TIMER OPERATIONS

Timer recording of broadcast

- The current time must be set correctly before you set timer recording.
- Make sure that the erase protection tabs of the cassette have not been broken off.

Operations

1. Set the POWER button to ON.
2. Load a cassette in Deck.
   - Insert the cassette with the side to be recorded facing up.
3. Set the timer start and stop times, then set the required volume, in this order. (Refer to "Setting the timer" on page 34.)
   - Set the timer about a minute before the broadcast to be recorded is scheduled to start.
4. Tune to the station to be recorded. (Refer to page 26.)
5. Set the POWER button to STANDBY.
6. Press the ○ REC and PLAY ► buttons of deck simultaneously.
   - The ◴ REC is shown in the timer display.

- **Timer recording will start at preset start time and the power will be switched off at preset stop time.** (The timer mode is then released.)

- **To cancel timer operation**
  Press the "TIMER" button so that the timer mode indicator (◴) goes out.

If you do this, timer recording will not start at the timer start time.

Notes:
Once the timer has been set, the start and stop times, etc., are stored in memory. When timer recording or playback is required at different times, the timer must be set again.

- After setting the timer start and stop times, check that the unit is tuned to the required frequency.
- The power is not switched off till the tape stops automatically, even when the timer stop time has expired during recording.

Timer playback

- Timer playback of tapes, broadcasts and CDs is possible.

Operations

❶ Set the POWER button to ON.
❷ Set the timer start and stop times, then set the volume, in this order. (Refer to "Setting the timer" on page 34.)
❸ Select the source sound.

Source sound	Timer mode	Operations
CD play	CD	Load a disc and press the ■/CLEAR button to set the CD mode.
Tape playback	TAPE	Load a cassette tape.
Radio broadcast	TUNER	Press the TUNER/BAND button to set to the tuner mode and tune to the required frequency.

- Timer playback of a CD is possible in programmed order. (See page 22.)
- The volume can be set to 25 different levels.

❹ Set the POWER button to STANDBY.
(When performing the timer playback of tape, press the PLAY ► button of the deck.)

- Timer playback will start at the timer start time and the power will be switched off at the timer stop time. (Tuner or CD)
  The power will not be switched off at the specified time during tape operation and will switched off at the tape end.
  The unit remains in the same timer mode even after the power is switched off and the same timer function will be repeated at the same time on the following day.

- When the power is switched on, it is possible to fade in the sound from volume level 0 (zero) to the preset volume.

- **To cancel timer operation**
  Set the POWER button to ON, then press the TIMER ON/OFF so that the timer mode indicator (◴) goes out.

Notes:

- When the volume setting is set to "VOL -" (volume level is not specified), the timer playback volume is set to that of before setting the timer.
- To stop during timer playback, press the POWER button to switch the unit off.
- In the fade-in mode, the volume gradually increases from zero.

SLEEP OPERATIONS

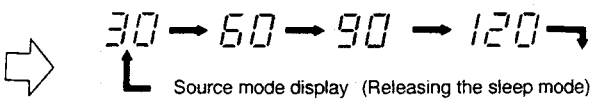
(Using the remote control unit)

A. Use this when you want to fall asleep while listening to a tape, broadcast or CD.

① Set the required source and tune or play back (CD or tape).

② Press the SLEEP button to set to the sleep time.

SLEEP is shown in the display



- Sleep times of 30, 60, 90 or 120 minutes can be set. When you release the SLEEP button, the source is displayed after 5 sec.

- The sleep operation will start and the power will be switched off after the specified time. (Tuner & CD modes)
  The power will not be switched off at the specified time during tape operation and will switched off at the tape end.

- **Checking the sleep time**
  When the SLEEP button is pressed, the remaining sleep time is displayed. If it is pressed again, a new sleep time can be set.

- **To cancel the sleep operation**
  Press the POWER button to switch the power off or press the SLEEP button until the sleep time indicator disappears.

B. To fall asleep while listening to a broadcast or compact disc and to perform timer playback the following morning.

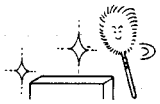
1. Set the timer playback start and stop times and volume. (See the "Setting the timer" on page 34.)
2. Set to the required source.

When falling asleep	When waking up
CD play →	CD play
Broadcast →	Broadcast

- During tape playback, the power is switched off when the tape ends, so only "When falling asleep" or "When waking up" operation is possible.

3. Press the SLEEP button to set the sleep time.

MAINTENANCE

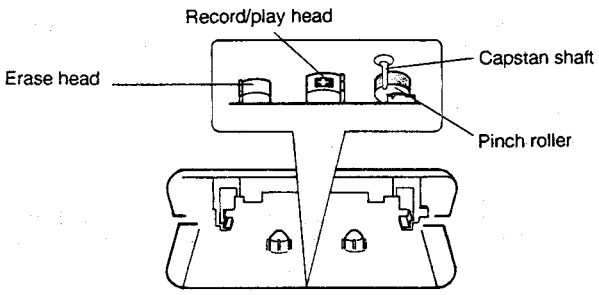


Cleaning is important!
When the tape is running, magnetic powder and dust naturally accumulate on the heads, capstan and pinch roller. When they become too dirty ...
- sound quality deteriorates
- the output sound level drops
- the previous sound is not completely erased
- recording is not performed satisfactorily.

Because of this, you should clean the heads, etc. every 10 hours of use, so that perfect recording is possible.

Cleaning the heads, capstan and pinch roller

Open the cassette holder.
Clean the heads, pinch roller and capstan.
For effective cleaning, use a cleaning kit available from an audio store.
After cleaning, be sure that the cleaning fluid has dried completely before loading a cassette.



Cautions:
1. Keep magnets and metallic objects away from the head. If the head becomes magnetized, noise will increase and the tone will deteriorate. Demagnetize the head every 20 - 30 hours of use with a head eraser (available from an audio store). (When demagnetizing the head, the POWER button should be set to STANDBY).
   - **As the erase head of this unit is of magnetic type, do not demagnetize it.**
2. Do not use anything other than alcohol for cleaning. Thinner and benzine will damage the rubber pinch roller.

TROUBLESHOOTING

What appears to be trouble is not always serious. Make sure first ....

1. Power cannot be turned on.
* Is the power cord unplugged?
2. No sound from the speakers.
* Are headphones connected?

- CD Player Section

3. The CD player does not play.
* Is the disc upside down?
* Is the disc dirty?
4. A certain portion of the disc does not play correctly.
* Is the disc scratched?

- Cassette Deck Section

5. Playback sound is at a very low level.
* Is the head dirty?
6. The ○ REC button does not function.
* Have the safety tabs of the cassette been broken off?

- Tuner Section

7. Reception is noisy.
* Try adjusting the antenna.

- Timer Section

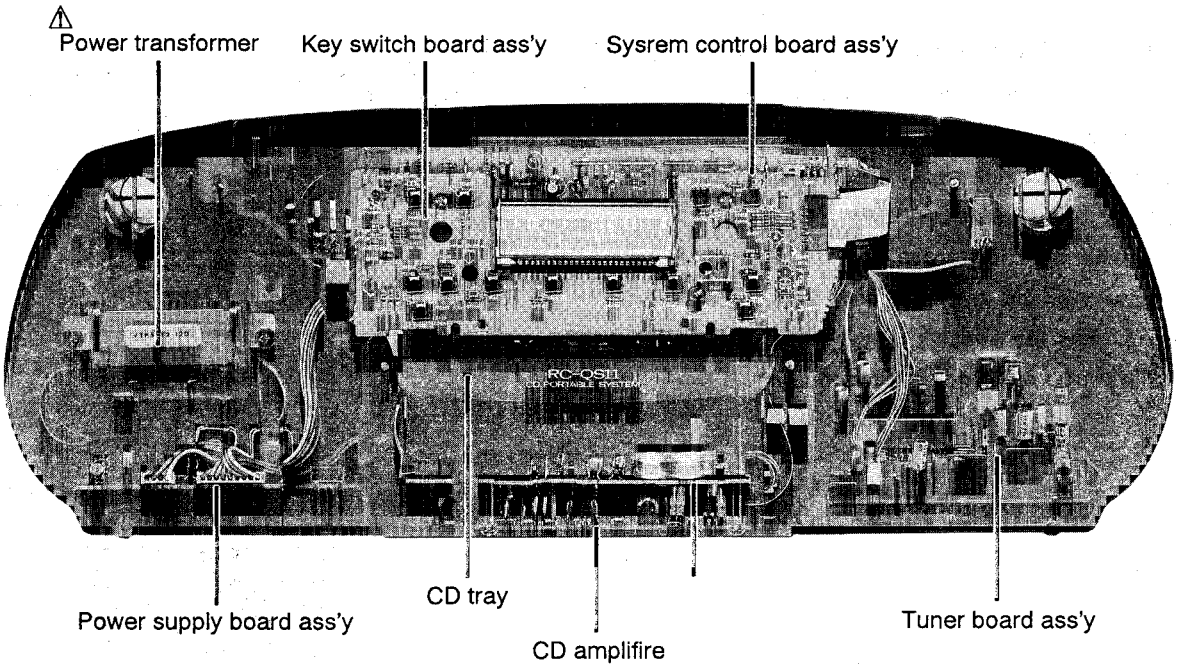
8. Timer operation does not start.
* Is the current time set correctly?
* Is the timer mode (◴) displayed?

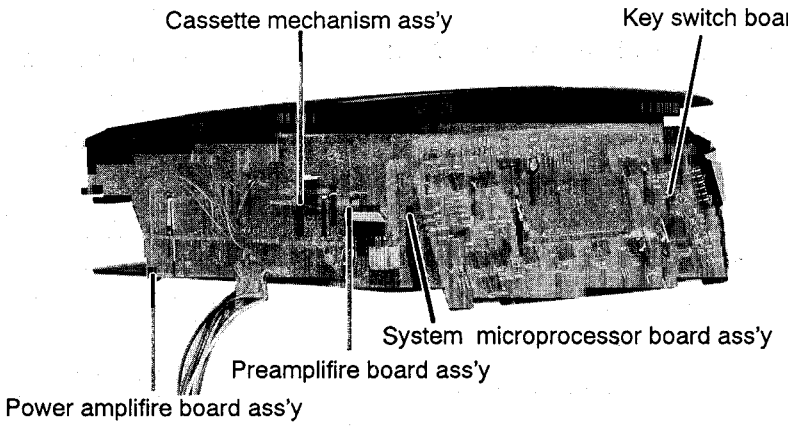
- Remote Control

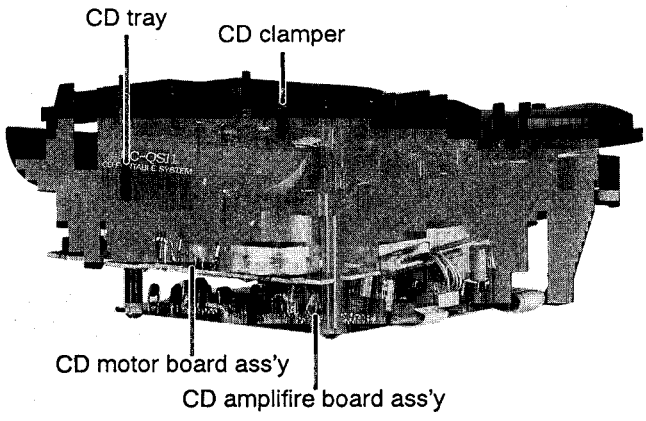
9. Remote control is impossible.
* Are the batteries in the remote control exhausted?
* Is the REMOTE SENSOR section exposed to bright light (direct sunlight, etc.)?

Note:
Before making an important recording, be sure to make a test recording first to check that the deck, etc. is working correctly.

1 Location of main parts







2 Removal of main parts

◆**Removing the front cabinet** (See Fig.2-1~Fig.2-2)

1. Press the battery cover tab in the direction (a) to remove the battery cover.
2. Remove the six screws (1) retaining the front cabinet from the back side of rear cabinet.
3. Pull the handle backward to remove it.
4. Remove the front cabinet assembly from the rear cabinet. At this time the speaker connector CN993 on the power P.C.B. will be removed simultaneously.

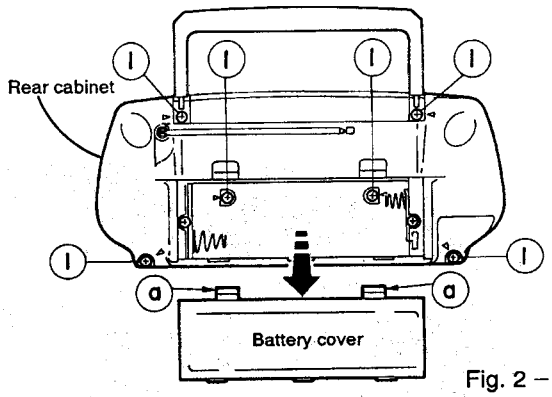


Fig. 2 – 1

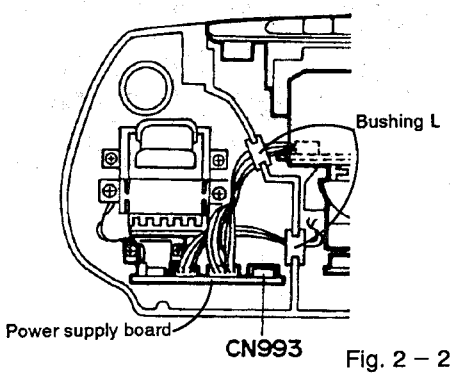


Fig. 2 – 2

◆**Removing the cassette mechanism and CD player unit** (See Fig.2-3~Fig.2-4)

1. Remove CN1 and CN2 from the tuner P.C.B. Next, remove the bushing R together with wire penetrated wires CN1 and CN2 from the rear cabinet.
2. Remove CN991 from power P.C.B. assembly. Next, remove the bushing L penetrating wire CN991 from the rear cabinet.
3. Insert the screwdriver into the square hole of rear cabinet battery box and lift the screwdriver up slightly to remove the CD chassis tabs, and pull out the CD player and cassette mechanism to the front direction.

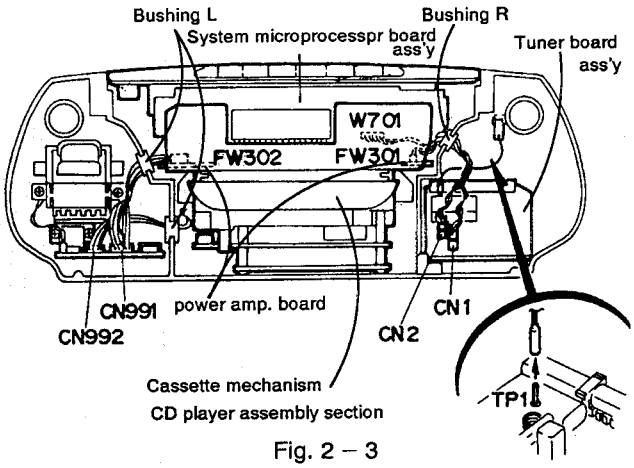


Fig. 2 – 3

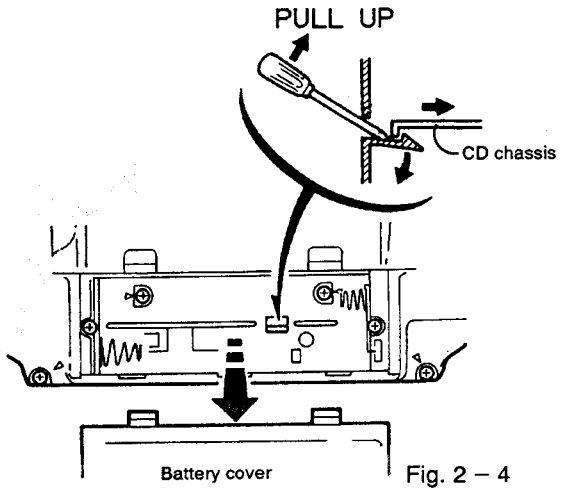


Fig. 2 – 4

◆ Removing the cassette mechanism and CD player

(See Fig. 2-5~Fig.2-7)

1. Remove the front cabinet assembly. Refer to "Removing the front cabinet."
2. Remove the cassette mechanism and CD player unit. "Refer to Removing the cassette mechanism and CD player."(See Fig. 2-3~Fig. 2-4)
3. Remove two screws ② retaining the system microprocessor P.C.B. assembly.
4. Remove CN703 and CN706 from the system microprocessor P.C.B. assembly.
   CN703 is the wire from CN601 on the CD amplifier P.C.B. assembly.
   CN706 is the wire from CN505 on the CD loading motor P.C.B. assembly.
5. Remove the wire from CN302 on the amplifier P.C.B. assembly situated on the right side of the unit.
   It is the wire from FW501 on the CD P.C.B. assembly.
6. The cassette mechanism of the unit can be removed.

◆ Removing the system microprocessor P.C.B. assembly(See Fig. 2-5~Fig. 2-8)

1. Remove the front cabinet assembly.
2. Remove two ② screws retaining the key switch P.C.B. assembly.
3. Remove CN703 and CN706 from the system microprocessor P.C.B. assembly.
4. Remove the connection connectors CN701 and CN702 with the power amplifier P.C.B. assembly and system microprocessor P.C.B. assembly by pulling them upward.

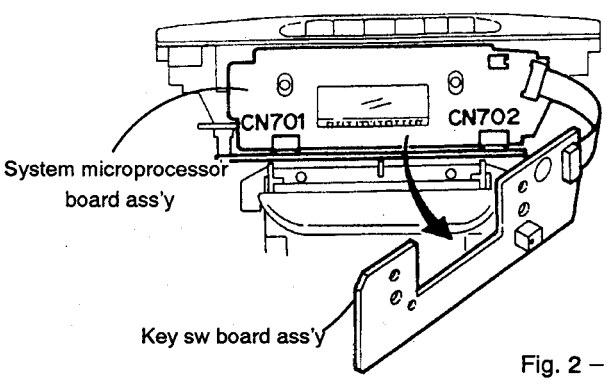


Fig. 2 – 8

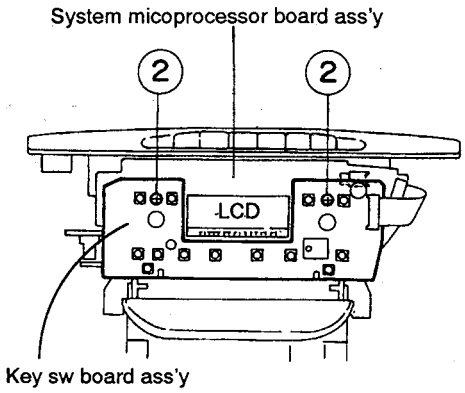


Fig. 2 – 5

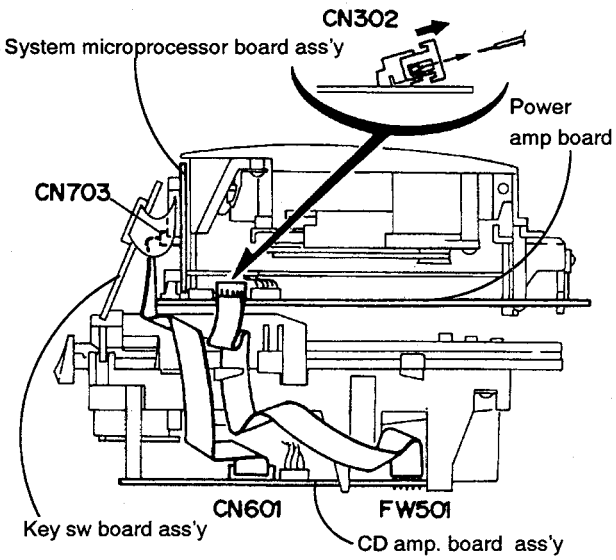


Fig. 2 – 6(Right side)

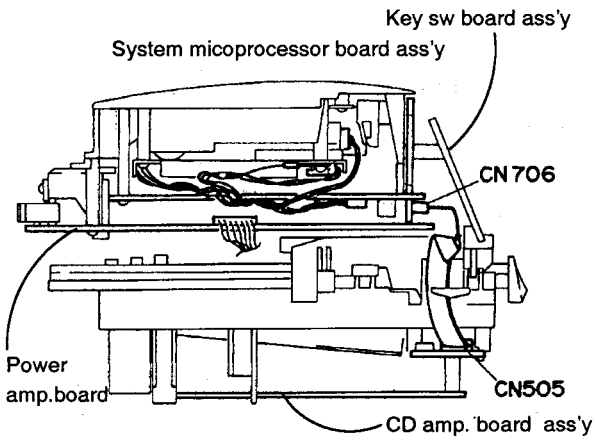


Fig. 2 – 7(Left side)

◆ Power amplifier P.C.B. assembly(See Fig.2-9)

1. Remove the front cabinet assembly.
2. Remove the cassette mechanism and CD player unit.
3. Turn the cassette mechanism over and remove three ③ screws retaining power amplifier P.C.B. assembly.
4. The power amplifier P.C.B. assembly and the preamplifier P.C.B. assembly situated just below it are connected with CN303 and CN304. Remove the power amplifier P.C.B. assembly upward.

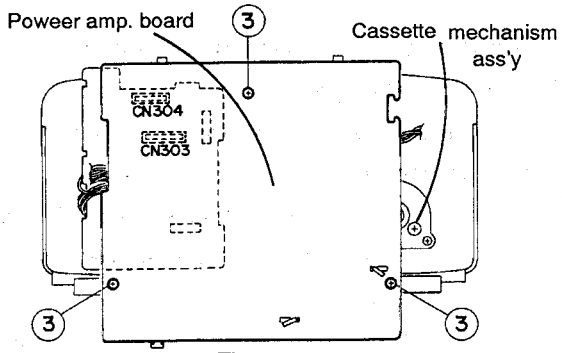


Fig.2 – 9

◆ Removing the preamplifier P.C.B. assembly

(See Fig. 2-10)

1. Remove the one screw ④ retaining preamplifier P.C.B assembly.
2. Remove the rec/play head of cassette mechanism assembly from CNA31 of preamplifier P.C.B. assembly.
3. Remove the leaf switch and motor wire of cassette mechanism assembly from CNA33 of preamplifier P.C.B. assembly.

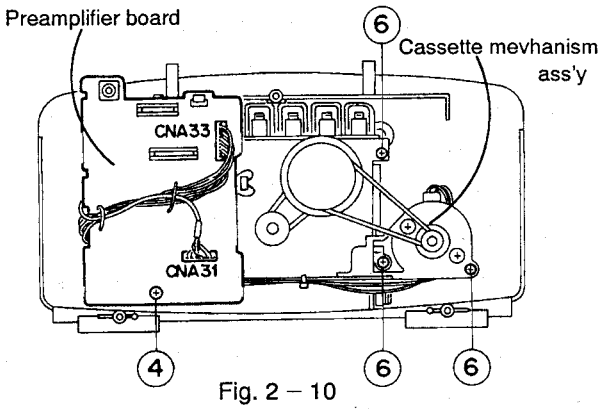


Fig. 2 – 10

◆ Removing the cassette mechanism assembly

(See Fig. 2-11)

1. Remove the front cabinet assembly.
2. Remove the cassette mechanism and CD player unit.
3. Remove the preamplifier P.C.B. assembly.
4. Remove five screws ⑥ retaining the cassette mechanism.

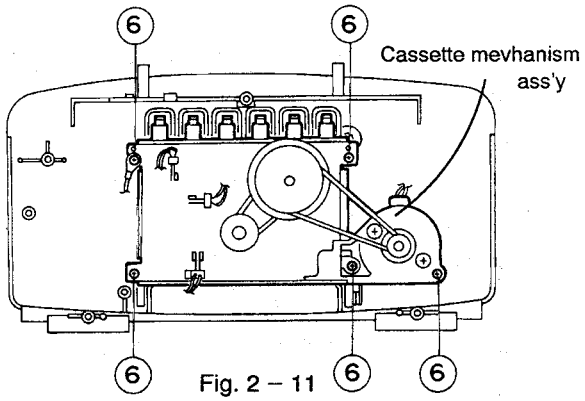


Fig. 2 – 11

◆ Removing the CD amplifier P.C.B assembly

(See Fig.2 – 12)

1. Remove the front cabinet
2. Remove the cassette mechanism and CD player unit.
3. Remove the cassette mechanism.
4. Turn the CD unit over and remove two screws ⑦ retaining CD amplifier P.C.B. assembly.
5. Remove the wire from CD amplifier P.C.B. assembly
6. Remove the card wire of pickup unit from the CD amplifier P.C.B. assembly CN501.

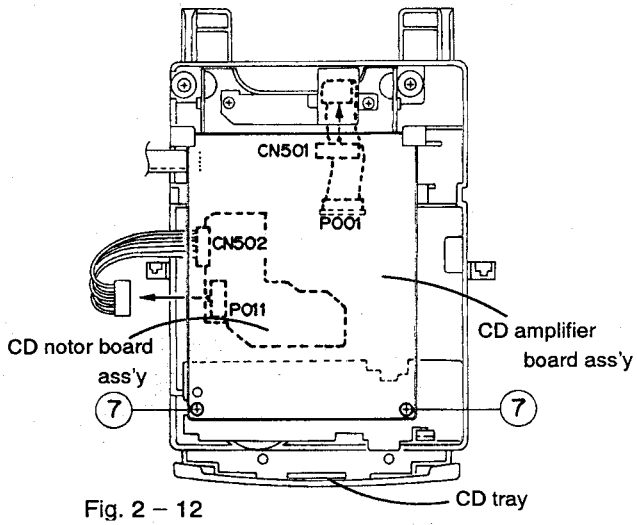


Fig. 2 – 12

◆ Removing the CD tray(See Fig. 2-13~Fig. 2-15)

1. Remove the CD tray plate. Pull the bottom side of tray plate to the front side. When the two plate tabs are disengaged, slide it upward to remove.

. Checking CD clamper

From the front view, when the CD clamper is clamped, open the clamper. Slide lever [A] under the tray (front side) to center position.

2. Remove the two tray stopper screws ⑧. (Remove them when the tray is pulled out.)

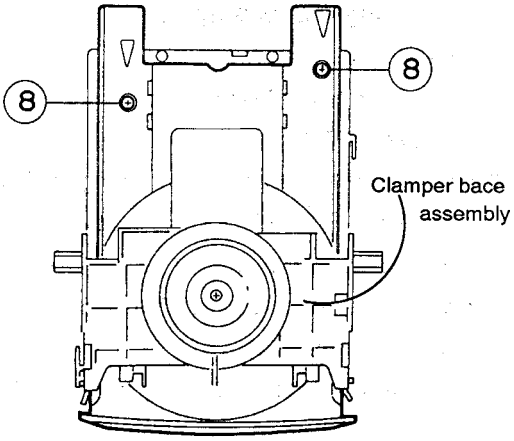


Fig. 2 – 13

◆ Removing the clamper assembly(See Fig. 2-16)

1. Remove up to the CD unit.
2. Pull out the CD tray. (It is not necessary to remove the tray stopper ⑧).
3. Remove the two screws ⑨ retaining the CD clamper assembly to remove the clamper assembly.

Pull plate's(fitting)bottom side forward, remove the tabs and slide to the top

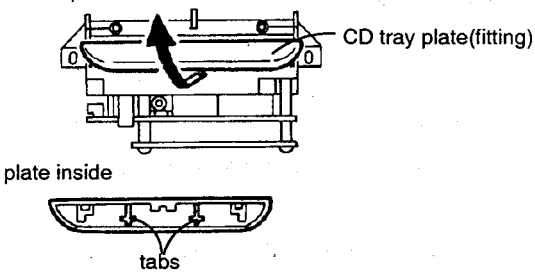


Fig. 2 – 14

★ Clamper is in chucking state

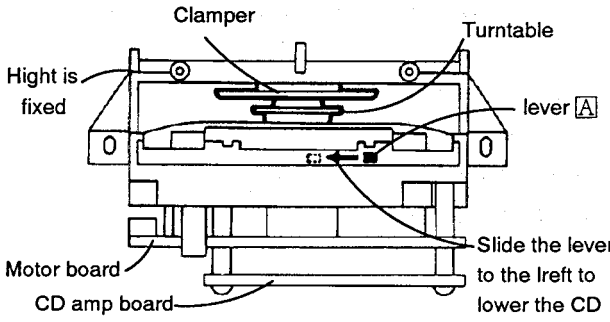


Fig. 2 – 15A

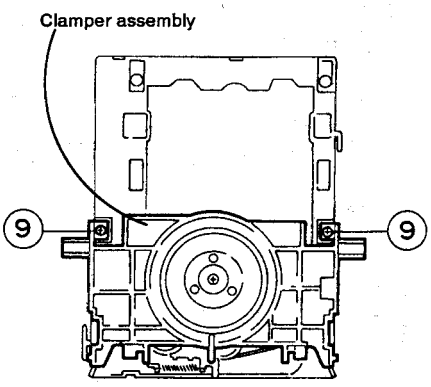


Fig. 2 – 16

★ The clamper is open

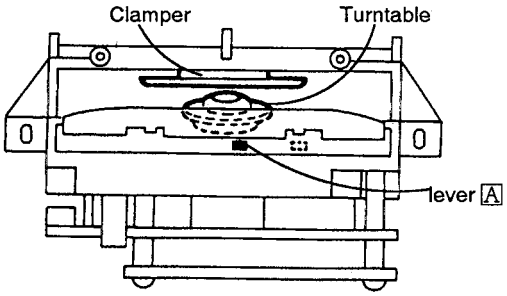


Fig. 2 – 15B

◆ Removing the loading motor

(See Fig. 2-18~Fig. 2-19)

1. Remove up to the CD unit.
2. Remove the CD tray.
3. Remove the two screws ⑩ retaining the loading motor and remove the drive belt from the pulley.
4. Turn the loading base over and remove the three pawl B retaining the loading motor P.C.B. assembly by opening in the direction of arrow.
5. Remove two solders of loading motor terminal.

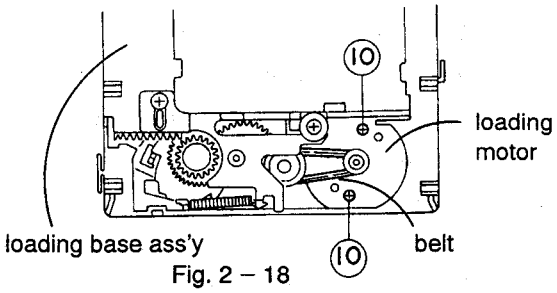


Fig. 2 – 18

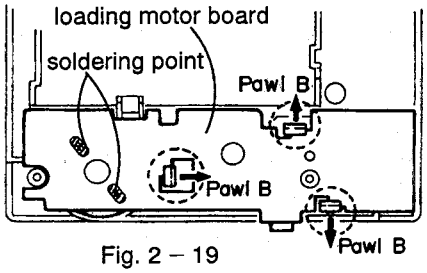


Fig. 2 – 19

◆ Removing the CD mechanism chassis

(See Fig. 2-20)

1. Remove up to the CD mechanism unit.
2. Remove the CD amplifier P.C.B. assembly.
3. Remove two screws ⑭ fixing the CD chassis.
4. Remove the CD chassis from the screw side.

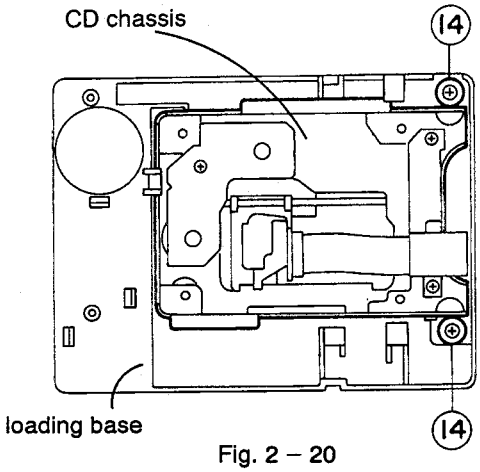


Fig. 2 – 20

◆ Replacing the pickup(See Fig. 2-21)

1. Remove up to the CD mechanism chassis assembly.
2. Remove two CD stopper screws ⑮.
3. Slide the CD chassis to the stopper screw and remove two chassis tabs [C].
4. Slide the shaft stopper in the direction of arrow to remove the shaft.

When assembling, check that the slits of damper and chassis are aligned.

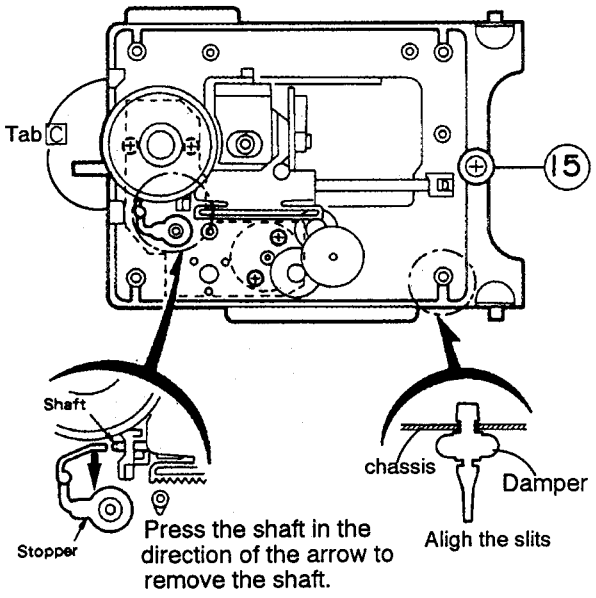


Fig. 2 – 21

◆ Removing the speaker(See Fig. 2-22)

1. Remove the front cabinet assembly.
2. Remove two screws ⑪ retaining each L and R speaker.

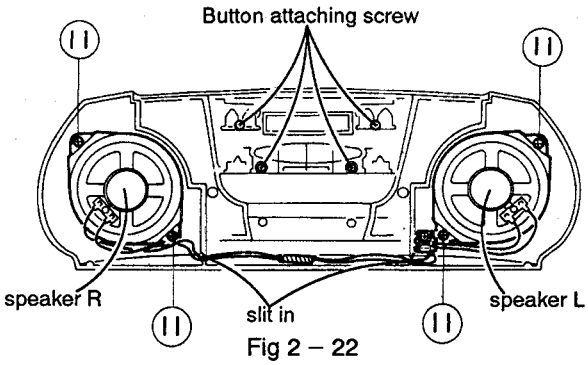


Fig 2 – 22

◆ Removing the tuner P.C.B. assembly(See Fig. 2-23)

1. Remove the front cabinet.
2. Lift the right front of tuner P.C.B. assembly to remove the hook from the left corner.
3. Remove the connectors CN1 and CN2 from the tuner P.C.B. assembly.
   CN1 is the wire from the power amplifier P.C.B. assembly FW301.
   CN2 is the wire from system microprocessor P.C.B. assembly W701.
4. Remove the receptacle wire of rod antenna from the TP1 of tuner P.C.B. assembly.

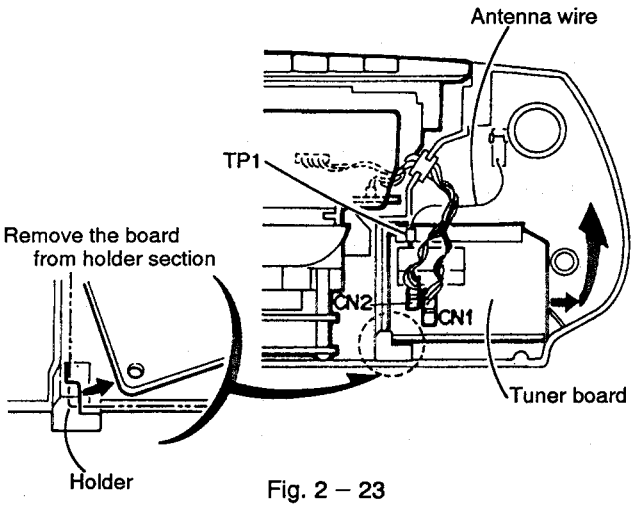


Fig. 2 – 23

◆ Removing the power supply P.C.B. assembly and power transformer(See Fig. 2-24)

1. Remove the front cabinet assembly.
2. Remove three screws ⑫ and ⑬ retaining the power transformer.
3. Remove the two screws ⑭ retaining the AC jack .
4. Remove connectors CN991 and CN992 from the power supply P.C.B. assembly.
   CN991 is the wire from the power amplifier P.C.B. assembly W302.
   CN992 is the wire from the battery terminal.

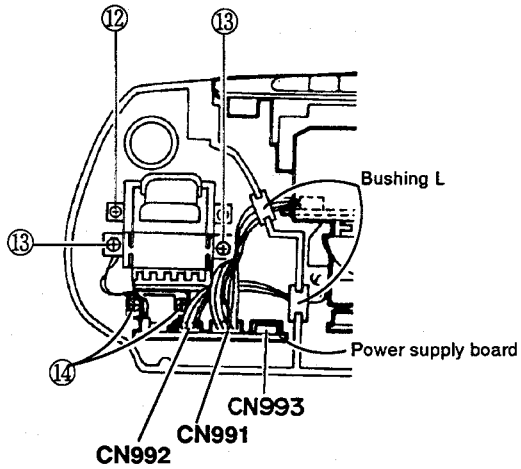


Fig. 2 – 24

■ Mechanism section

■ Cassette mechanism section

◆ Capstan motor ass'y (See Fig.2 – 25~Fig.2 – 26)

1. Remove the two screws ① retaining the capstan motor ass'y.

◆ R/P head (See Fig.2 – 26)

1. Remove the R/P head mounting screw ② and loosen screw ③.

◆ Ehead(See Fig. 2 – 26)

1. Remove the E head arm stopper.

◆ Pinch roller(See Fig. 2 – 26)

1. Remove the pinch roller arm stopper.

◆ Flywheel ass'y(See Fig. 2 – 26)

1. Remove the poly washer ⑤ securing the capstan shaft.
2. Pull out the flywheel ass'y.

◆ Removal of the button ass'y from the mechanism chassis(See Fig.2 – 27~Fig. 2 – 30)

• Leaf switch's lock panel and raise from the to remove.

•Gear(Below the flywheel)

Remove the poly washer ⑦ securing the gear.

For Reassembly, insert the sensing lever arm stabd into the Ⓐ sction.

• Lovk arm

Press the arm sropper from the window ⑧, and pull to renove.

• Chassis removal

1. Remove the one screw ⑨ retaining the rec-plate spring.
2. Disengage the button springs.
3. Remove the three springs Ⓑ, Ⓒ, and Ⓓ.
4. Remove the two screws ⑩.
5. Remove the two screws ⑪ securing the capstan metal.
6. Gentlyremove the button ass'y from the chassis.

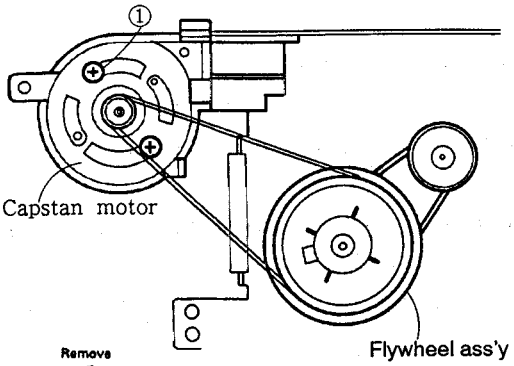


Fig. 2 – 25

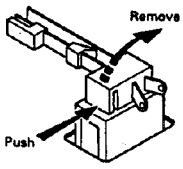


Fig. 2 – 27

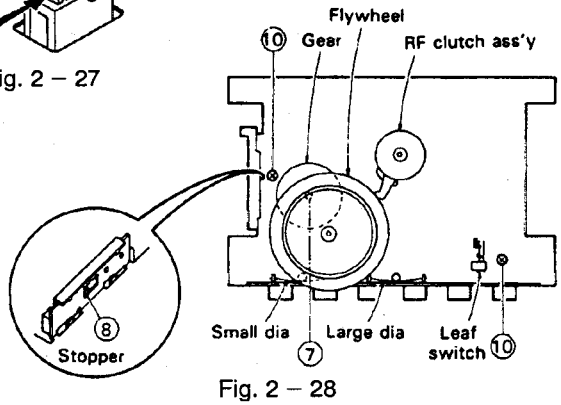


Fig. 2 – 28

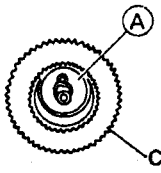


Fig. 2 – 29

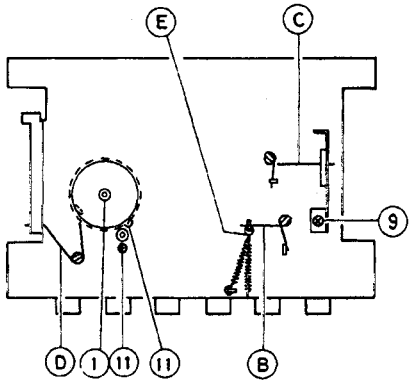


Fig. 2 – 30

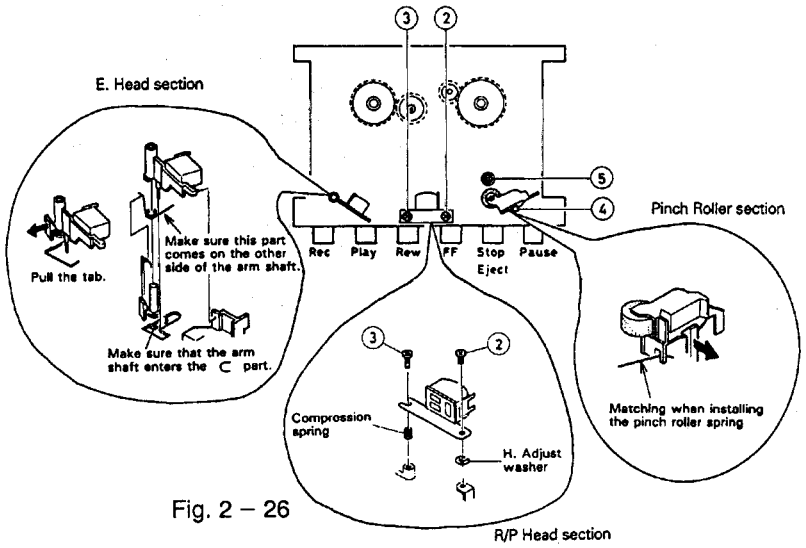


Fig. 2 – 26

3 Main adjustment

■ Measuring instructions required for adjustment

1. Low-frequenvy oscillator(oscillation frequency 50Hz~20kHz, 0dB out put with 600 Ω impedance)
2. Attenuator(600 Ω impedanc)
3. Electronic voltmeter
4. Distortion meter
5. Torque gauge(cassette for CTG-N,
6. Wow&flutter meter
7. Frequency counter meter
8. Ext. jig cord••••EXTRCQW3 – KIT

◇Test tape

● Playback tape

VTT 712 (tape speed ,wow flutter)
VTT 724 (reference level)
VTT 739 (playback frequency)
VTT 703L (10kHz azimuth)

● Recording tape

UR (normal tape)
AC 224 (chrome)

● Power supply voltage

Your local voltage
AC240V : B version
AC230V : E/G/GI/EN version

■ Measuring instruments

● Radio section

◇FM :400Hz, 22.5kHz deviation
◇FM STEREO : 1kHz,67.5kHz, deviation
pilot signal 7.5kHz
◇AM : 400Hz, 30%, modulation
◇Reference output :
skeaker output : 0dBs(0.755V)/3 Ω
H.phone output : – 10dBs(0.245V)/32 Ω

◇Standard position of function swiths
Function switch : FM
Timer : OFF
Main volume : Referrence out put
Tone : 0
Beat cut switch : Auto

● Amplifire section

◇Reference output :
skeaker output 0dBs(0.755V)/3 Ω
H.phone output – 10dBs(0.245V)/32 Ω
◇Standard position of function swiths
Function switch TAPE
Mode switch STEREO

● CD section

◇Test disc (JVC CTS – 1000)
(CRG – 1242)

Test point (CN301)

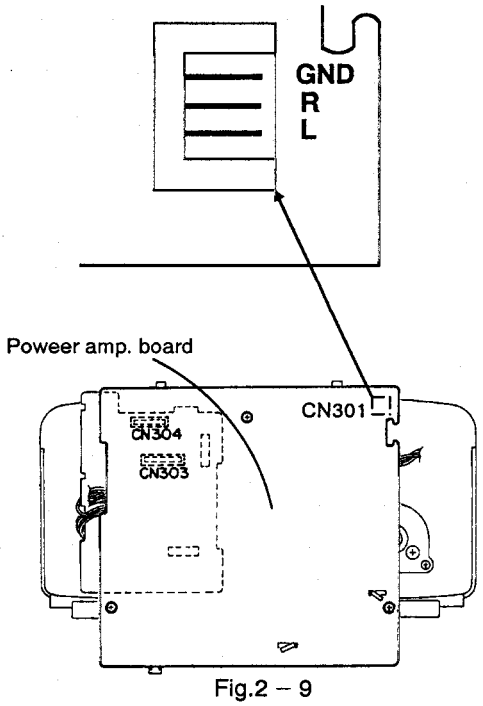
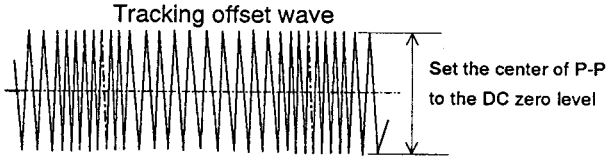


Fig.2 – 9

■ Amplifier Section

Test tape	Conditions	Adjustment and checking methods	Standard value	Adjustment locations
Head azimuth adjustment Checking tape speed and wow & flutter	Test tape : VTT703L (10 kHz) Output terminal for measurement : L and R speaker terminals (loaded impedance of 5.6 ohms) Input terminal for measurement: TP301	(1) Playback test tape VTT703L (10 kHz) (2) Adjust the head azimuth so that the phase difference is minimum (within 2 dB of the peak level of play output). After adjustment, apply the screw-locking compounds to the head azimuth screw more than a half turn. (3) If there is a discrepancy, adjust finely with the head azimuth screw.	Within 2 dB from the peak level, Minimum phase difference	Only adjust the head azimuth screw when the head is replaced.
	Test tape : VTT712 (3 kHz) Output terminal for measurement : Headphone terminal	(1) When playing test tape VTT712 (3 kHz), check that the frequency counter reading is 2960 Hz - 3070 Hz. When the reading is out of this range, adjust through the hole in the top cover. (2) Wow & flutter should be less than 0.38% (JIS UNWTD).	Tape speed of deck :Within 2960 Hz - 3070 Hz Wow & flutter : Less than 0.38% (JIS UNWTD)	VR in the motor
Checking the play output	Test tape : VTT724 Output terminal for measurement: Headphone terminal	When playing test tape VTT724, the output is −30 dB ±40 dB at 1 kHz.	-30 dB ±40 dB	
Checking play frequency characteristics	Test tape : VTT7392 Output terminal for measurement : Speaker terminal	When playing back test tape VTT739, characteristics should be +6 dB ±4 dB at 63 kHz and +1 kHz ±4 dB at 10 kHz with respect to 1 kHz.	1 k/63 Hz : +6 ±4 dB 1 k/10 kHz : +1 ±4 dB	
Adjustment of bias oscillation frequency	Test tape : AC513 Output terminal for measurement : TP301	(1) Connect the frequency counter (with 1 M ohm resistor) to test point TP301. (2) Load a test tape (CrO2) in deck and set to the record-pause mode. (3) With the radio in the FM mode and the deck in the record mode, adjust LA341 so that the frequency counter reading is 101 kHz ±0.15 kHz. Then change to AM and check that the reading is as follows: o AM 531 kHz: 97.2 kHz ±0.5 kHz o AM 603 kHz: 93.5 kHz ±0.8 kHz	When recording an FM broadcast : 101 kHz ±0.15 kHz	LA341
Record/play frequency characteristics adjustment	Reference frequency : 1 kHz, 10 kHz (REF, −20dB) Test tape : UR (normal) Output terminal for measurement : CN301	(1) Record and play back the 1 kHz reference frequency and 10 kHz signal, and check at terminal CN301. (2) When recording or playing back with a normal tape, check that the output bias of 1 kHz and 8 kHz at the output terminal CN301 is +1 dB±4 dB. When it is less than −3 dB, cut the bias wire BB306 and check it again. (3) After adjusting, check the bias frequency and adjust if it is out of the 101 kHz ±0.3 kHz range.	Normal tape : + 1 dB ±4 dB	Cut of BB306
Record and playback sensitivity	Test tape: Input terminal : CN301 Output terminal : Headphones	(1) When recording or playing back a 1 kHz reference level with normal tape, check that the sensitivity difference is +1 ±3 dB with respect to the monitor level.		

■ CD Section

Test tape	Conditions	Adjustment and checking methods	Standard value	Adjustment locations
Tracking offset adjustment	Normal disc : CTS1000 Oscilloscope	(1) Connect the oscilloscope to TP503 (hot side) and TP501(GND side). (2) Connect the DG and AG terminals of FW501and apply 7V to terminal +B. (3) Play a normal disc. (4) Short-circuit TP504 and TP504. (5) Adjust VR501 so that the DC level of the tracking error signal (waveform of an oscilloscope) is zero. Tracking offset wave  Note 1) Adjust VR501 so that the upper and lower waveforms are symmetrical with respect to the zero level. 2) The oscilloscope input is DC-coupled.	Set the level to 0 DC, centering p-p.	VR501

◆ Preamp. board

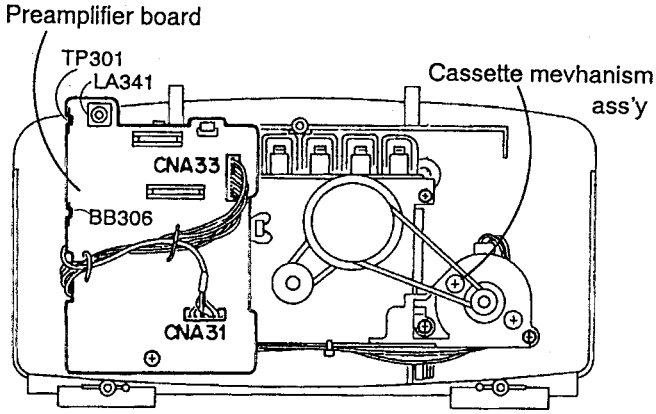
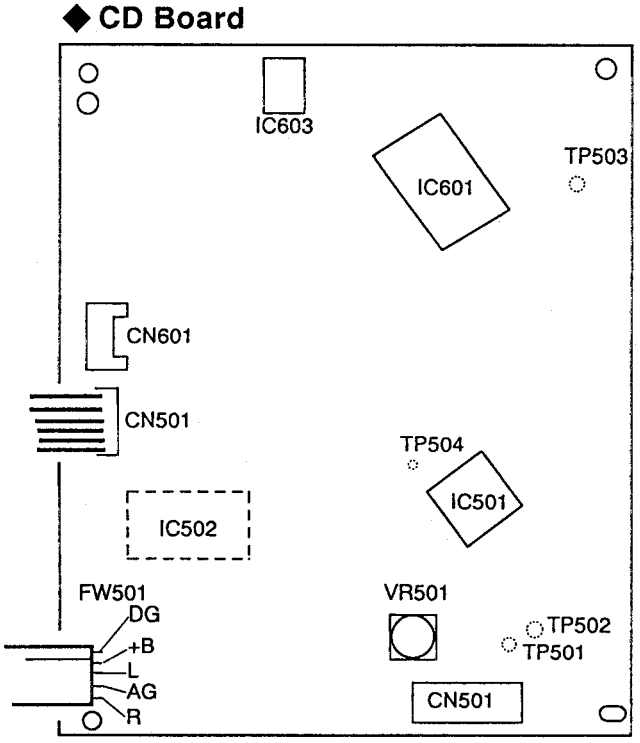


Fig. 2 – 10

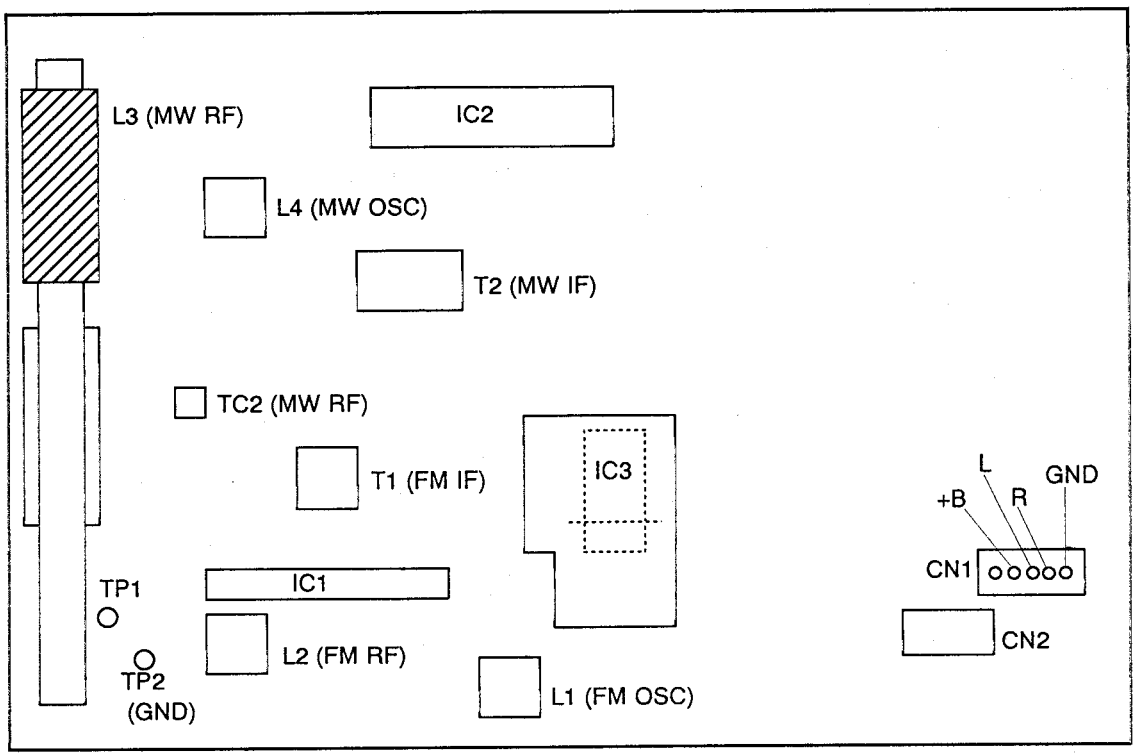
◆ CD Board



■ Radio Section

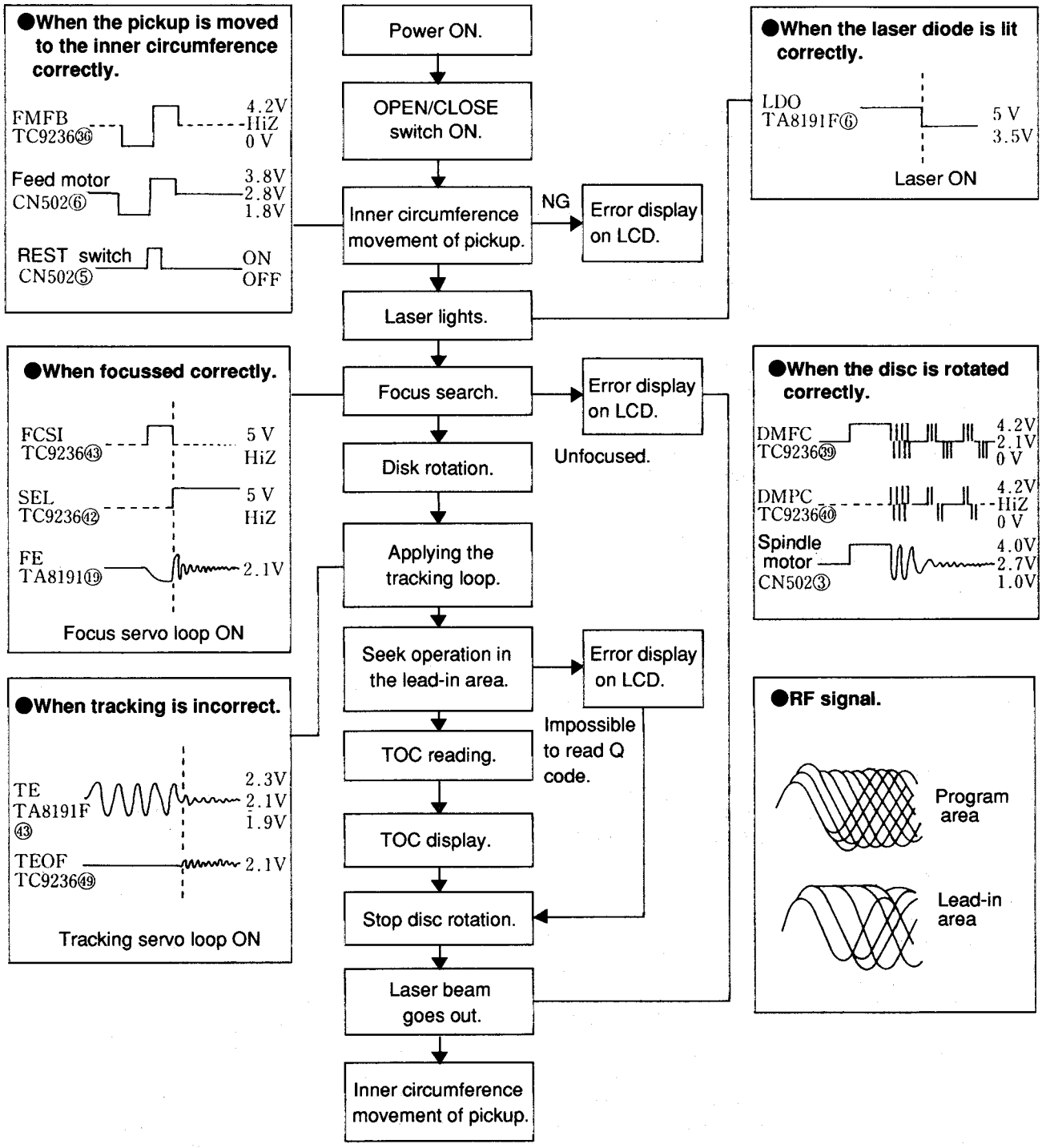
Test tape	Conditions	Adjustment and checking methods	Standard value	Adjustment locations
FM, AM IF adjustment MPX adjustment		* Since a fixed IF element is being used, no adjustment is required. * Since a ceramic oscillator is being used, no adjustment is required.		
AM tracking adjustment	Band selection: MW Standard setting mode : Auto Terminal for measurement : Audio output terminal CN1 Input terminal : Standard loop antenna	(1) Adjust L3 so that the CN1 output is maximum when 603 kHz (preset 3) is received from the MW signal generator. (2) Adjust TC2 so that the CN1 output is maximum when 1404 kHz (preset 3) is received from the MW signal generator. (3) Repeat (1) and (2) so that the output is maximum.	Maximum (more than 57 dB) Maximum (more than 50 dB)	L3 TC2 L3, TC2
FM Tracking adjustment	Band selection: FM Input terminal : TP1 (Hot side), (dummy antenna is used) TP2 (GND side)	(1) Adjust L2 so that the audio output (terminal CN1) is maximum when 88 MHz (preset 3) is received from the FM signal generator.		

◆ Tuner board

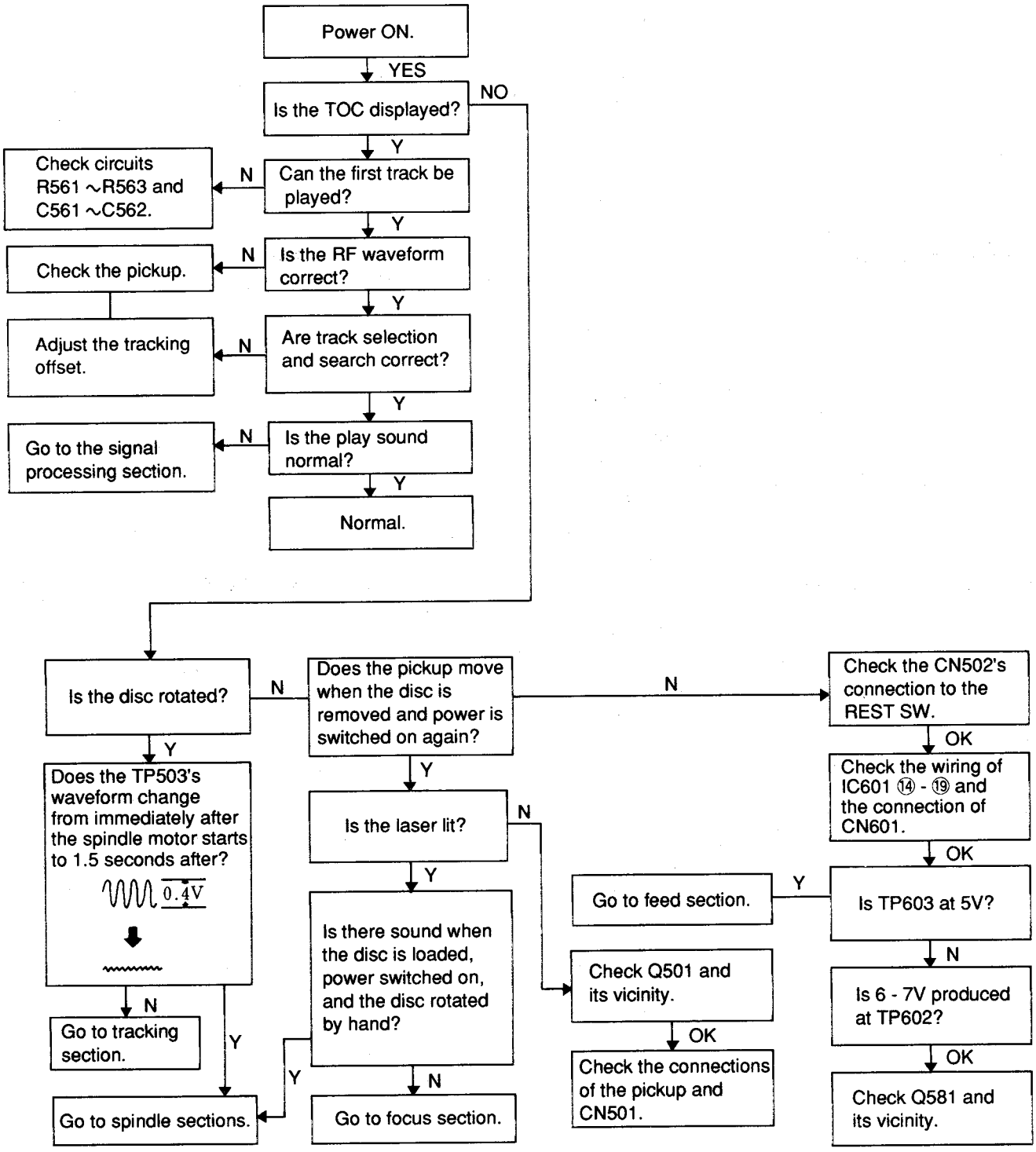


4 Trouble shooting chart of CD player section

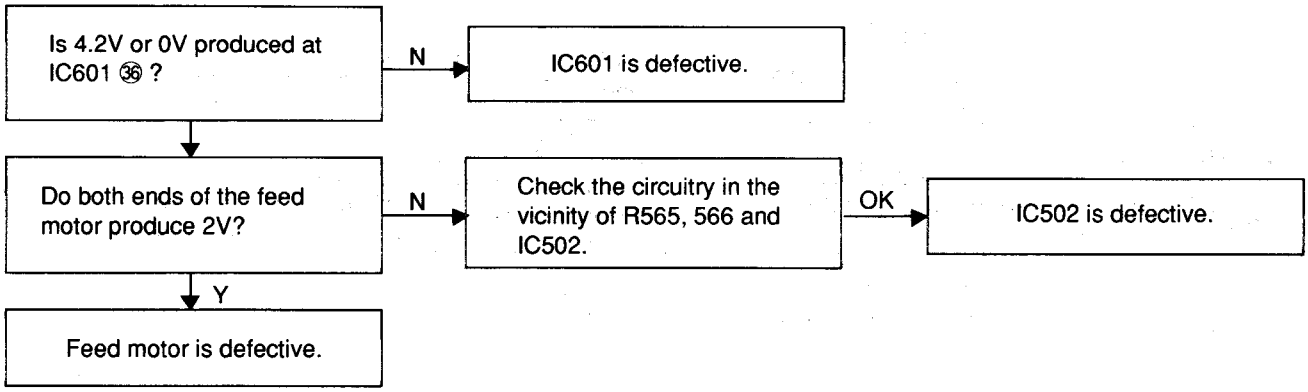
General descriptions of TOC (Table of Contents) readings


●When the pickup is moved to the inner circumference correctly.
FMFB TC9236㊱ 4.2V HiZ 0 V
Feed motor CN502⑥ 3.8V 2.8V 1.8V
REST switch CN502⑤ ON OFF
●When focussed correctly.
FCSI TC9236㊸ 5 V HiZ
SEL TC9236㊷ 5 V HiZ
FE TA8191⑲ 2.1V
Focus servo loop ON
●When tracking is incorrect.
TE TA8191F ㊸ 2.3V 2.1V 1.9V
TEOF TC9236㊾ 2.1V
Tracking servo loop ON
Power ON.
OPEN/CLOSE switch ON.
Inner circumference movement of pickup.
NG
Error display on LCD.
Laser lights.
Focus search.
Error display on LCD.
Unfocused.
Disk rotation.
Applying the tracking loop.
Seek operation in the lead-in area.
Error display on LCD.
Impossible to read Q code.
TOC reading.
TOC display.
Stop disc rotation.
Laser beam goes out.
Inner circumference movement of pickup.
●When the laser diode is lit correctly.
LDO TA8191F⑥ 5 V 3.5V
Laser ON
●When the disc is rotated correctly.
DMFC TC9236㊴ 4.2V 2.1V 0 V
DMPC TC9236㊵ 4.2V HiZ 0 V
Spindle motor CN502③ 4.0V 2.7V 1.0V
●RF signal.
Program area
Lead-in area

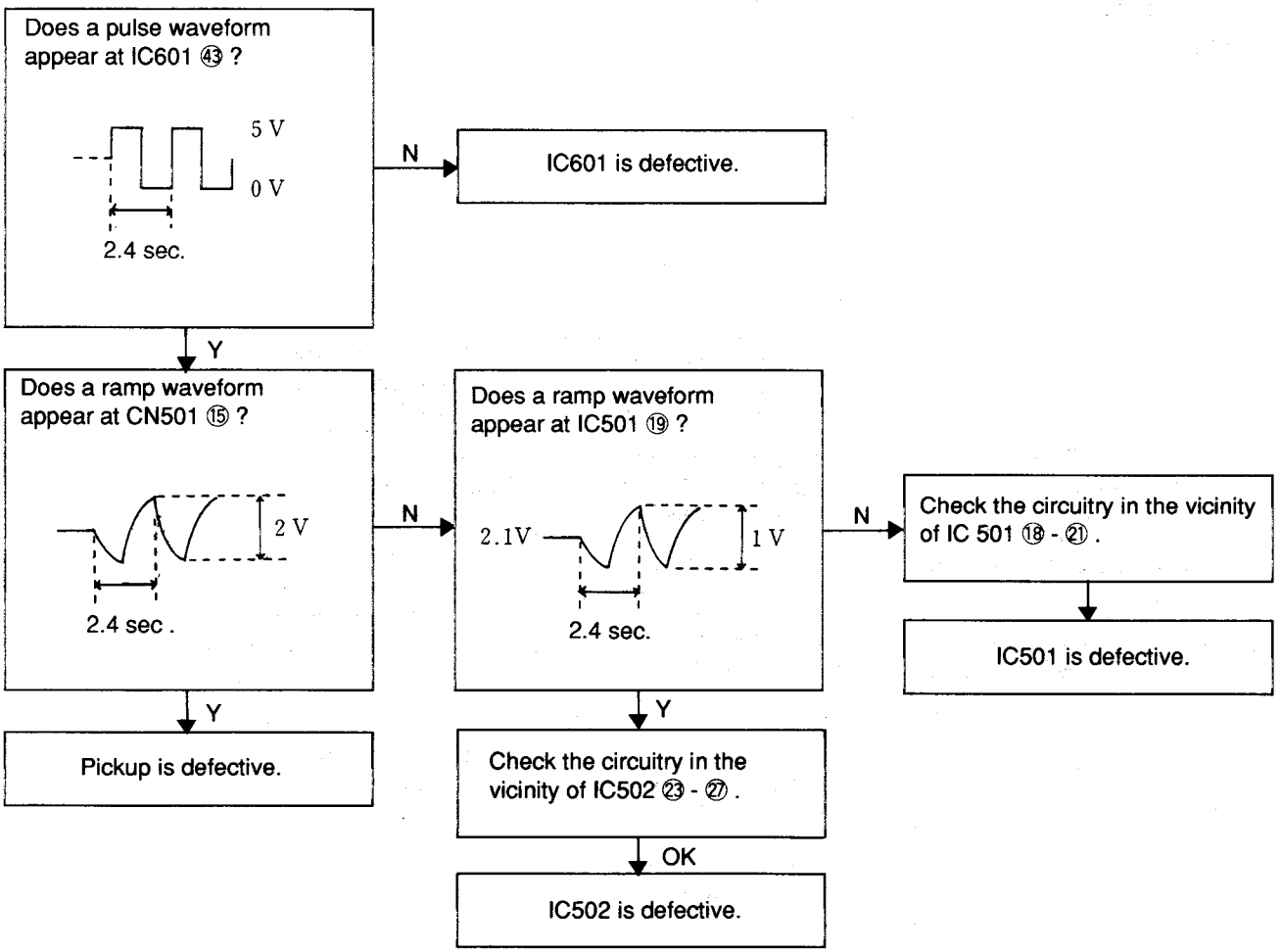
■General section



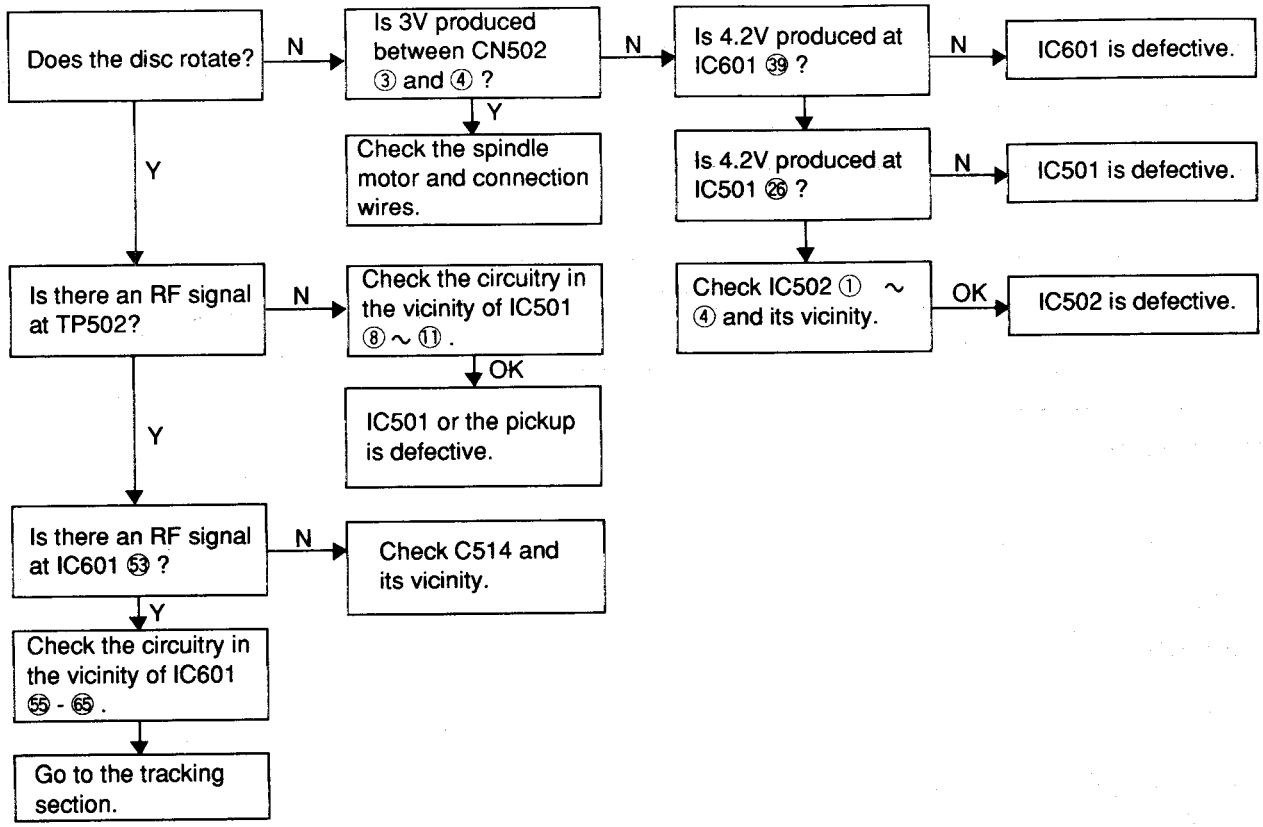
■ Feed section


Is 4.2V or 0V produced at IC601 ㊱ ?
N
IC601 is defective.
Do both ends of the feed motor produce 2V?
N
Check the circuitry in the vicinity of R565, 566 and IC502.
OK
IC502 is defective.
Y
Feed motor is defective.

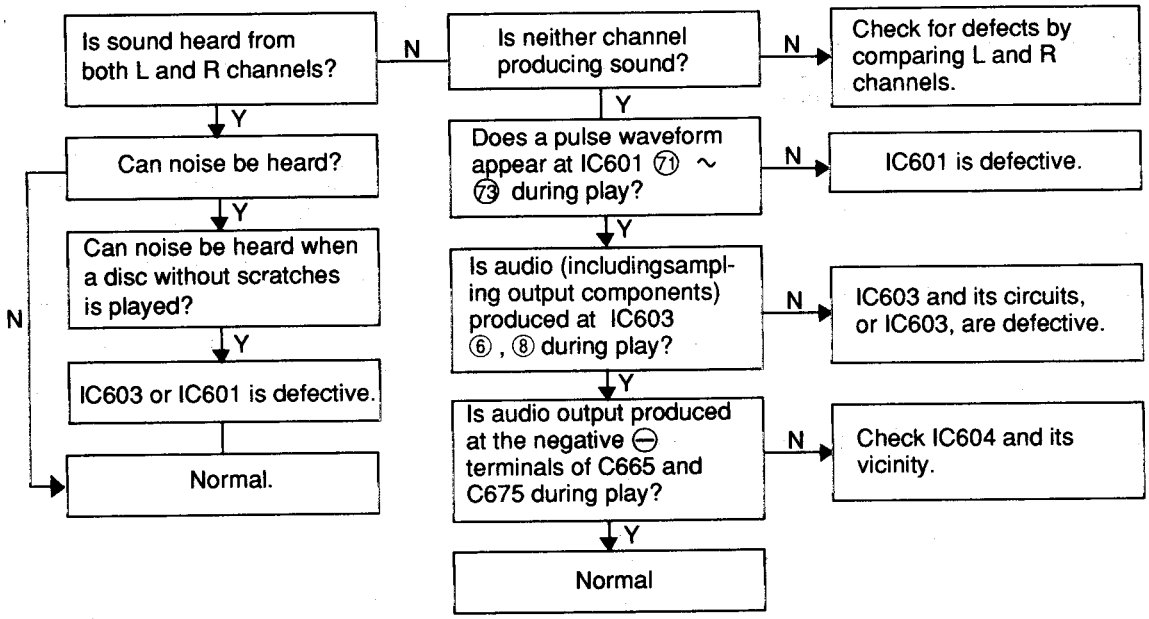
■ Focus section



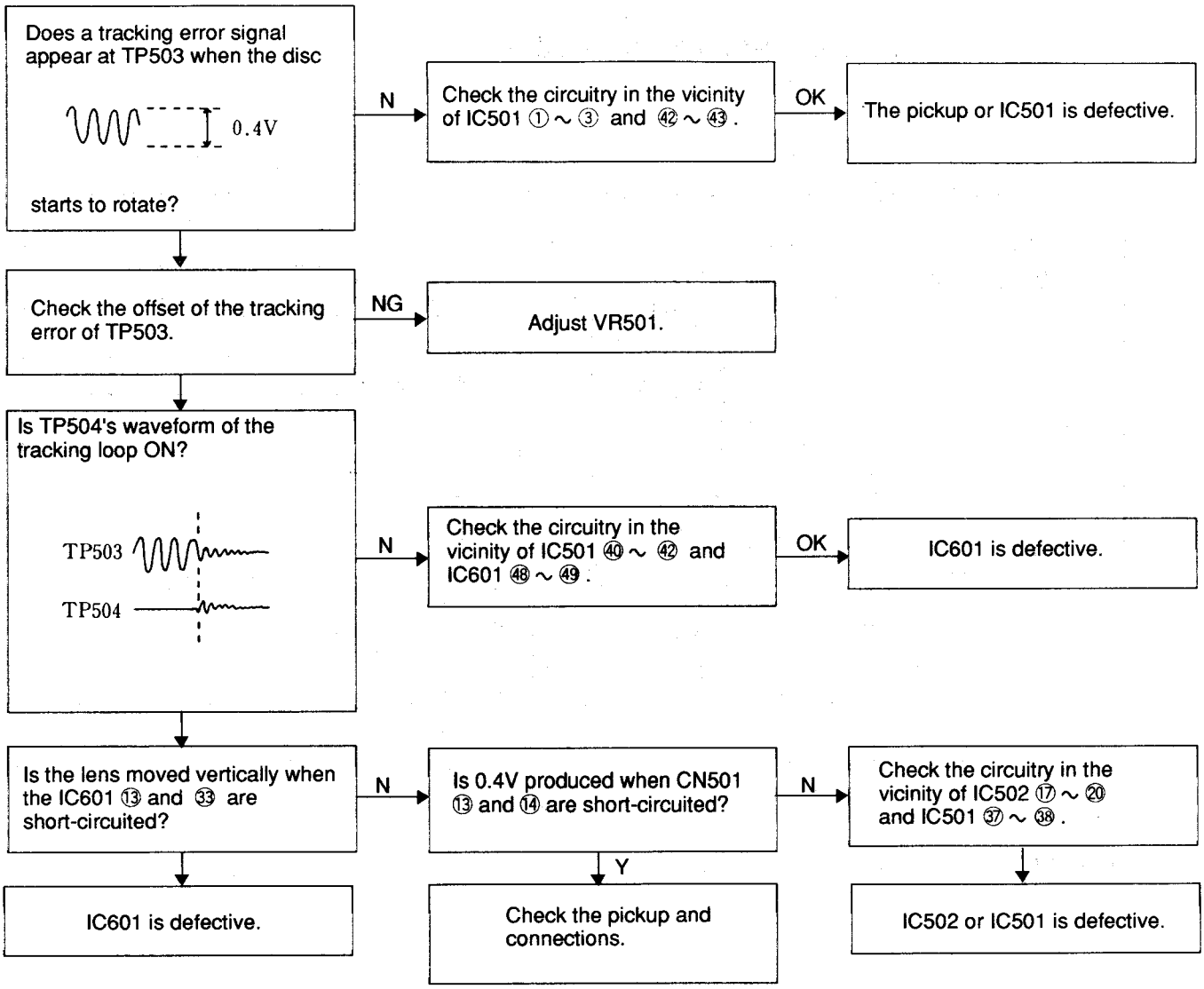
■ Spindle motor section


Does the disc rotate?
N
Is 3V produced between CN502 ③ and ④ ?
N
Is 4.2V produced at IC601 ㊴ ?
N
IC601 is defective.
Y
Check the spindle motor and connection wires.
Y
Is 4.2V produced at IC501 ㉖ ?
N
IC501 is defective.
Is there an RF signal at TP502?
N
Check the circuitry in the vicinity of IC501 ⑧ ~ ⑪ .
Check IC502 ① ~ ④ and its vicinity.
OK
IC502 is defective.
OK
IC501 or the pickup is defective.
Y
Is there an RF signal at IC601 ㊸ ?
N
Check C514 and its vicinity.
Y
Check the circuitry in the vicinity of IC601 ㊺ - ㊾ .
Go to the tracking section.

■ Signal processing section


Is sound heard from both L and R channels?
N
Is neither channel producing sound?
N
Check for defects by comparing L and R channels.
Y
Y
Can noise be heard?
Does a pulse waveform appear at IC601 ㊶ ~ ㊸ during play?
N
IC601 is defective.
Y
Y
Can noise be heard when a disc without scratches is played?
Is audio (includingsampling output components) produced at IC603 ⑥ , ⑧ during play?
N
IC603 and its circuits, or IC603, are defective.
N
Y
Y
IC603 or IC601 is defective.
Is audio output produced at the negative ⊖ terminals of C665 and C675 during play?
N
Check IC604 and its vicinity.
Y
Y
Normal.
Normal

■ Tracking section


Does a tracking error signal appear at TP503 when the disc
0.4V
starts to rotate?
N
Check the circuitry in the vicinity of IC501 ① ~ ③ and ㊷ ~ ㊸ .
OK
The pickup or IC501 is defective.
Check the offset of the tracking error of TP503.
NG
Adjust VR501.
Is TP504's waveform of the tracking loop ON?
TP503
TP504
N
Check the circuitry in the vicinity of IC501 ㊵ ~ ㊷ and IC601 ㊽ ~ ㊾ .
OK
IC601 is defective.
Is the lens moved vertically when the IC601 ⑬ and ㉝ are short-circuited?
N
Is 0.4V produced when CN501 ⑬ and ⑭ are short-circuited?
N
Check the circuitry in the vicinity of IC502 ⑰ ~ ⑳ and IC501 ㊲ ~ ㊳ .
IC601 is defective.
Y
Check the pickup and connections.
IC502 or IC501 is defective.

5 Block diagram

■ Integrated circuit

◆ IC2 LA1832 (FM IF/DET/MPX,AM RF/IF/DET)

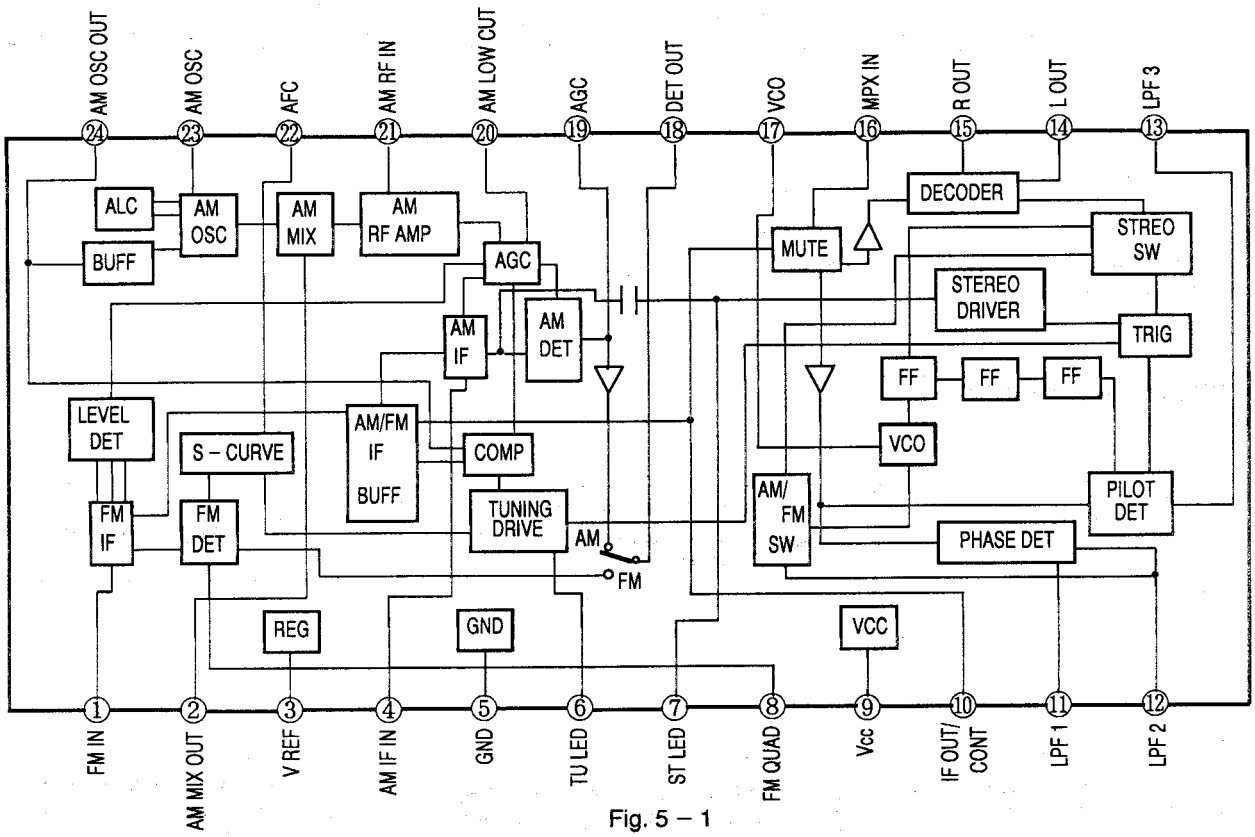


Fig. 5 – 1

◆ IC302 CXA1792S (E.VOLUME)

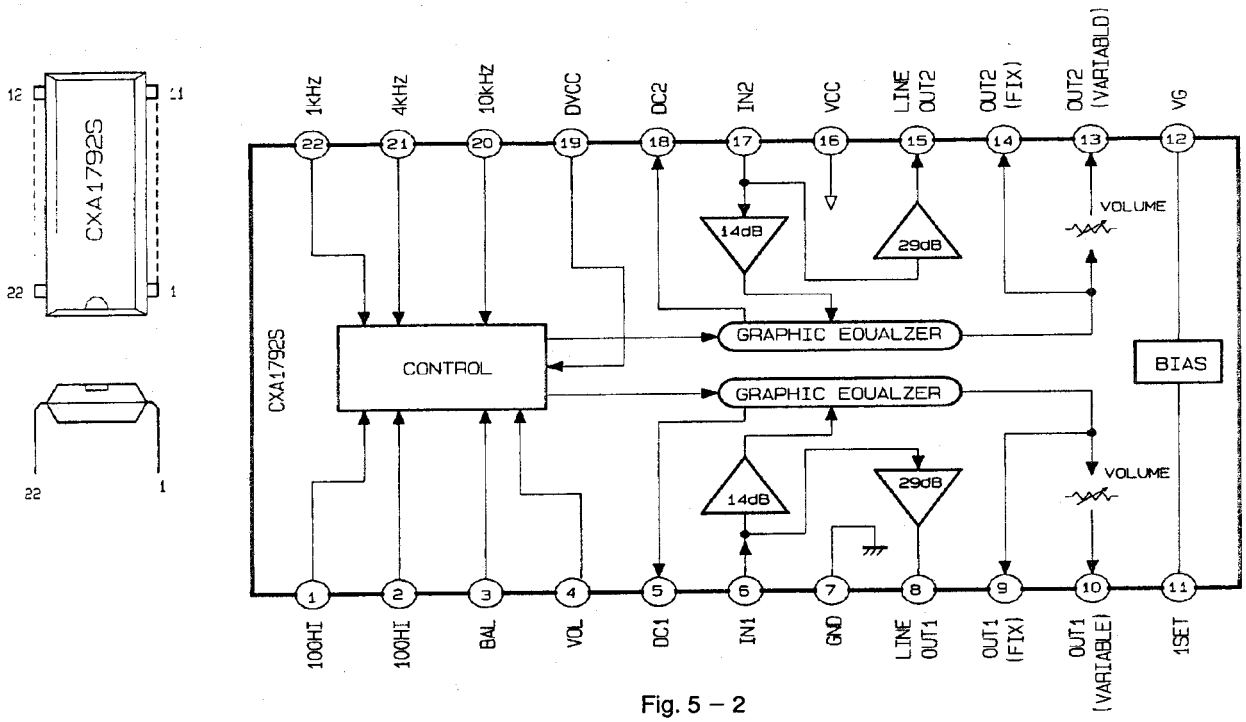


Fig. 5 – 2

◆ IC1 TA7358P (FM FRONT END)

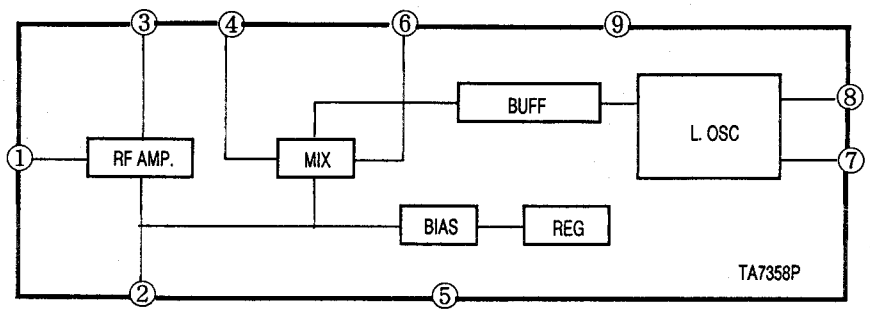


Fig. 5 – 3

◆ IC3 TC9216P (LPF)

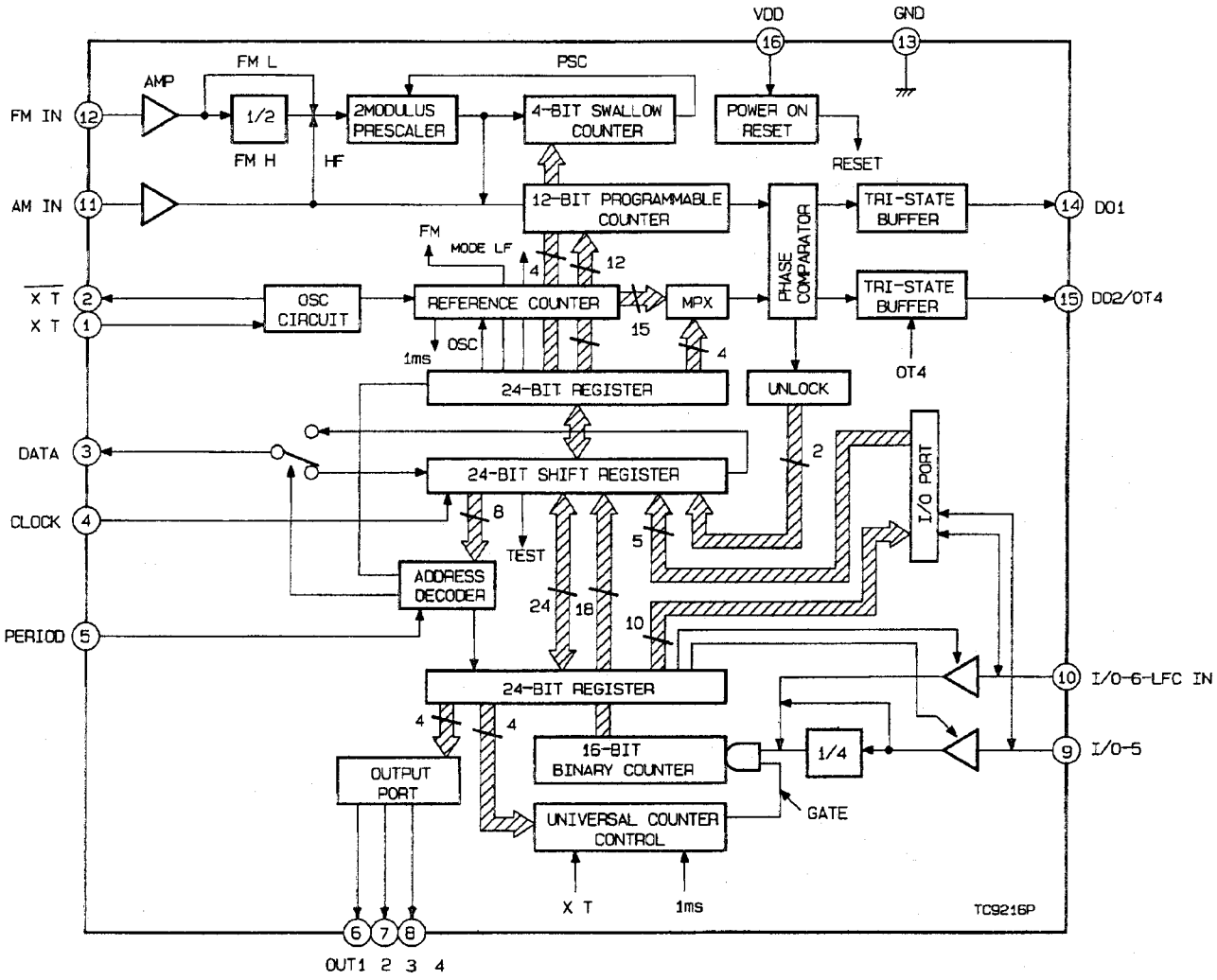


Fig. 5 – 4

◆ IC802 BA6208A (TRAY MOTOR DRIVE)

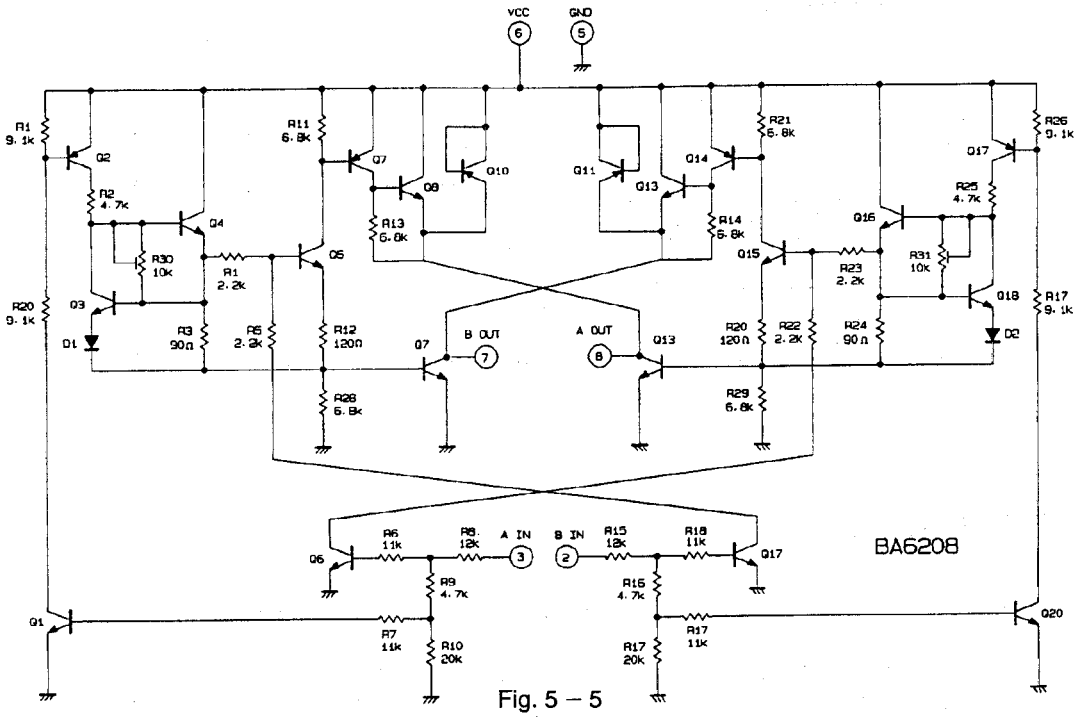


Fig. 5 – 5

◆ ICA32 LA3220 (REC AMP.)

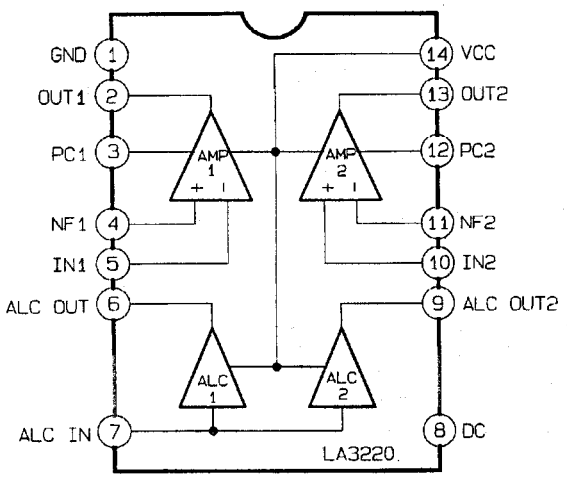
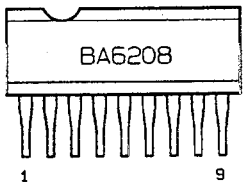
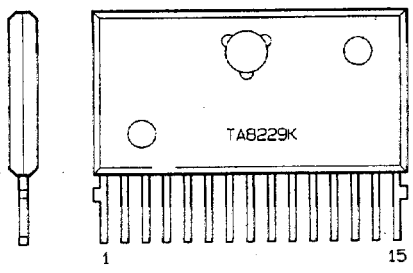


Fig.5 – 6



◆ IC304 TA8229K (POWER AMP.)



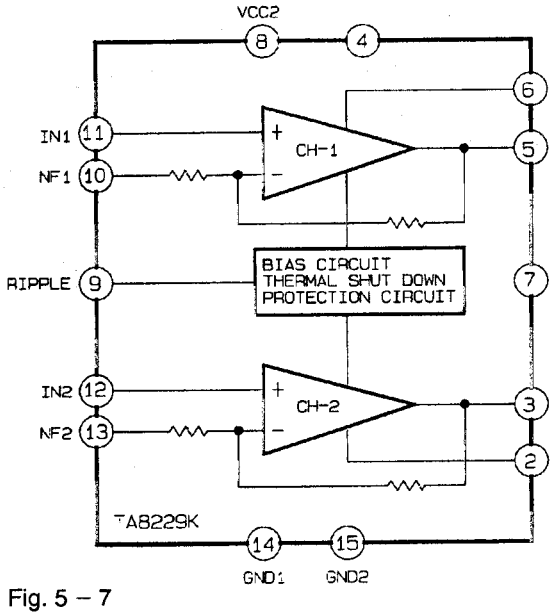


Fig. 5 – 7

Signal diagram

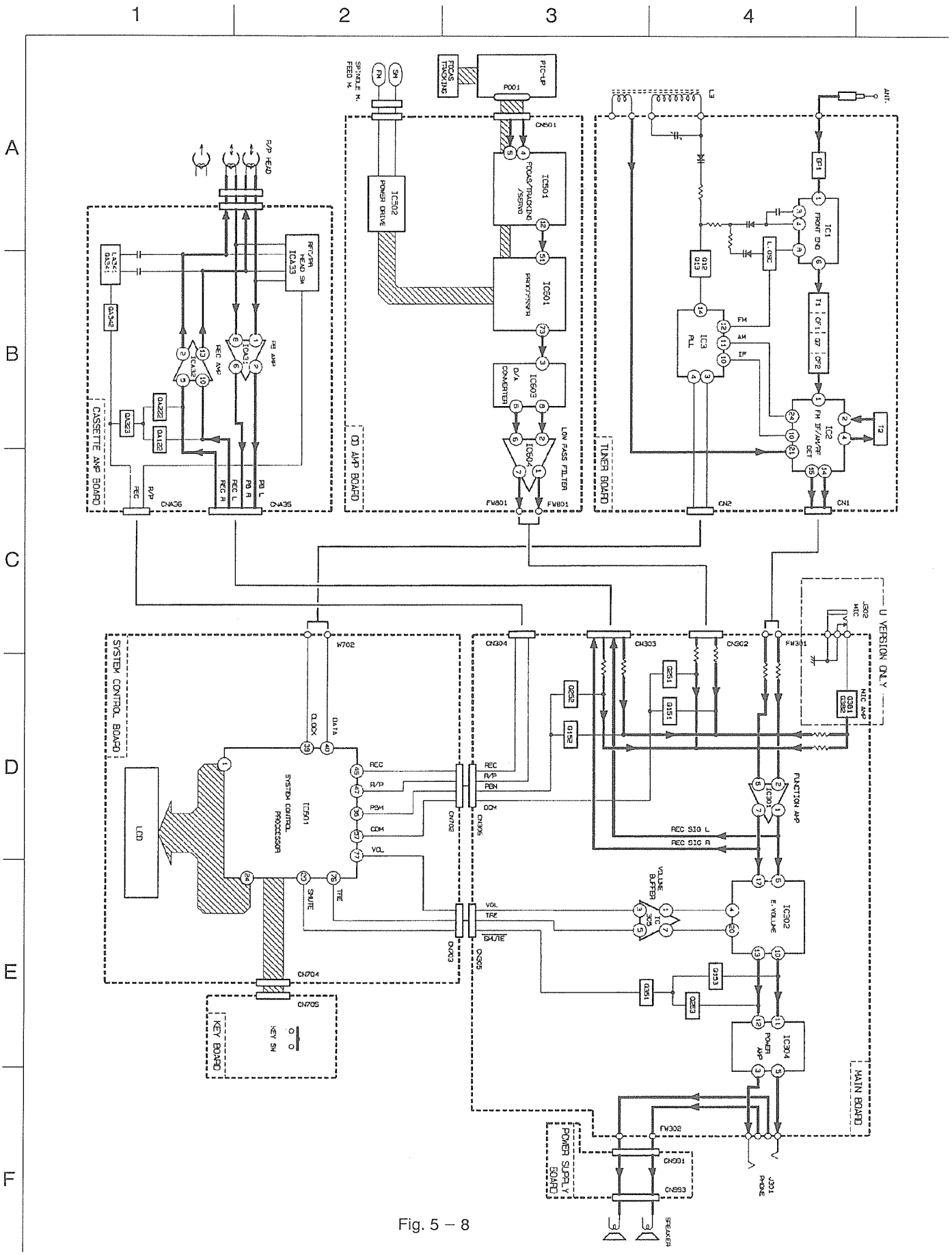


Fig. 5 – 8

6 Wiring connections

Color codes are shown below.

1 ..... Brown
2 ..... Red
3 ..... Orange
4 ..... Yellow
5 ..... Green
6 ..... Blue
7 ..... Violet
8 ..... Gray
9 ..... White
0 ..... Black
D ..... Pink
C ..... Light Blue

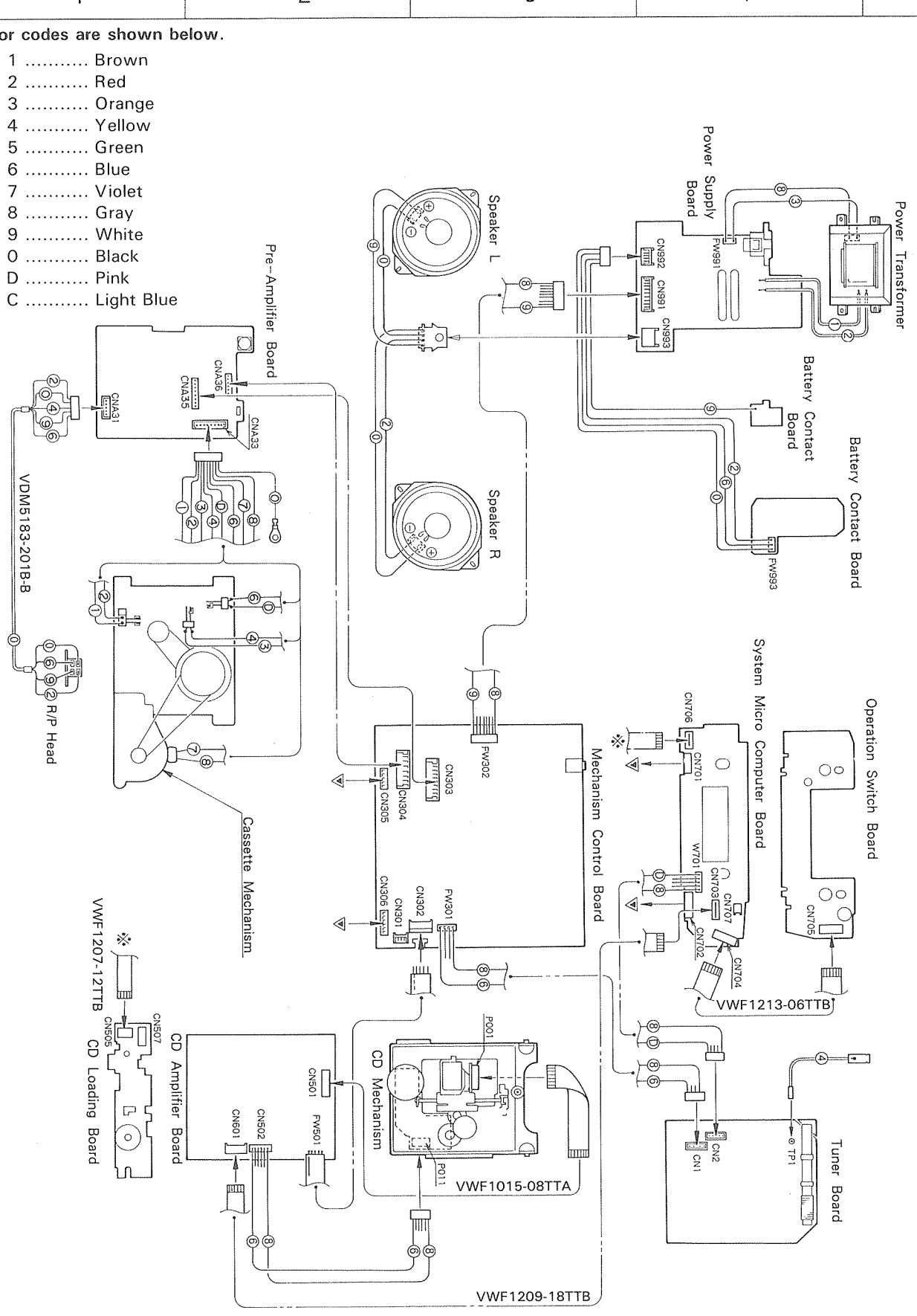


Fig. 6 – 1

7 Standard Schematic Diagram ■ Tuner Circuit

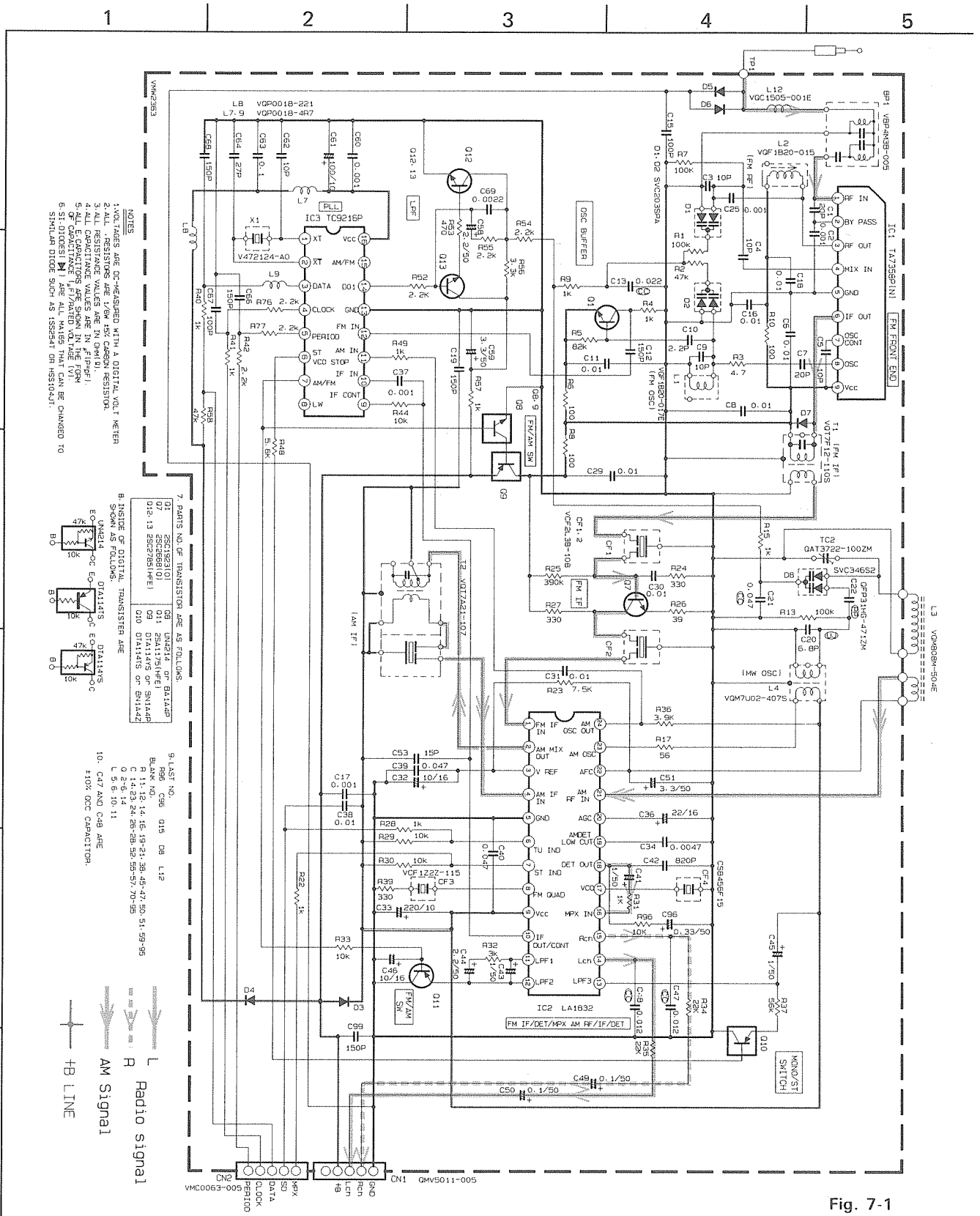


Fig. 7-1

To F-8 on page 45 To D-1 on page 43

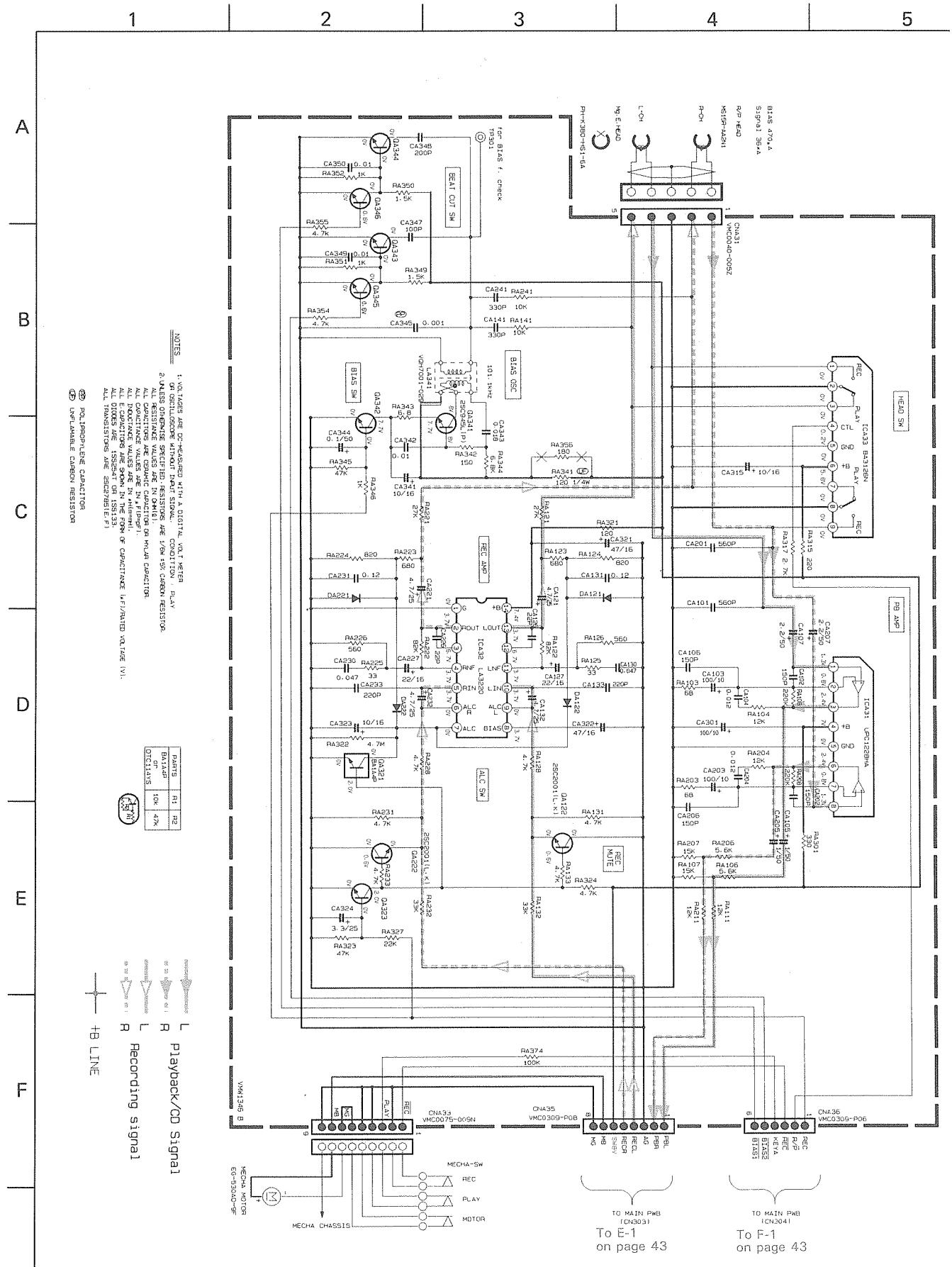
TR NO.	Q1			Q7			Q8			Q9			Q10			Q11			Q12			Q13		
PIN NO.	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B	E	C	B
FM 87.5MHz NO SIGNAL	3.9	4.7	2.6	0	15.1	10.8	0	0	4.7	5.6	6.5	5.5	0	3.7	0	4.7	3.7	0	4.7	0	1.0	0.6	0.6	4.5	1.1
AM 522kHz NO SIGNAL	0	0	0	0	0	0	0	5.8	0	5.8	0	5.8	6.6	0	0	0.7	0	0.1	0	0.9	0.6	0.6	4.7	1.1

PIN NO.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
IC1	FM NO SIGNAL	0.8	1.5	4.8	1.5	0	4.8	4.1	4.8	4.8															
	FM NO SIGNAL	2.0	4.8	2.0	2.0	0	4.8	4.6	2.6	4.8	0	3.7	3.7	3.7	1.1	1.0	2.0	2.2	2.2	0	6.1	2.4	2.4	4.8	3.4
IC2	FM 60dB STEREO	2.0	4.8	2.0	2.0	0	0	4.8	2.7	4.8	0	3.7	3.7	3.7	1.1	1.0	2.0	0.2	1.2	4	0	2.0	2.1	2.1	4.8	3.3
	AM NO SIGNAL	2.0	5.1	2.0	2.0	0	5.1	5.1	3.5	5.1	0	1.8	0.7	3.6	1.1	1.1	2.0	0.2	0.7	1.8	0.7	2.0	2.0	5.1	3.6
IC3	FM NO SIGNAL	2.3	2.2	2.5	2.5	2.5	2.4	0.8	4.6	0	0	2.3	0	2.3	0	1.1	0	4.6							

TR NO.	
PIN NO.	
FM 87.5MHz NO SIGNAL	
AM 522kHz NO SIGNAL	

Note
VDH5183005TW

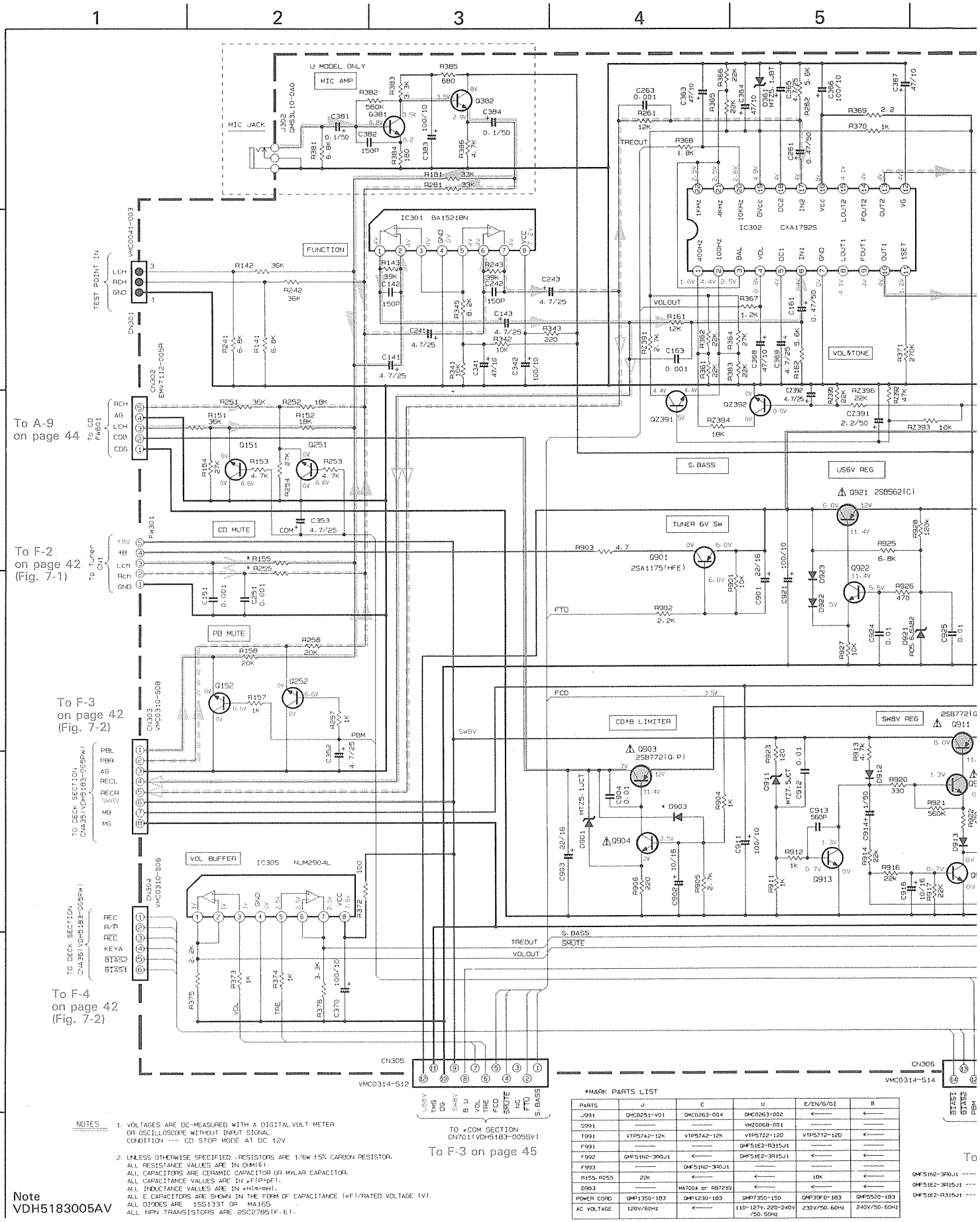
Head Amplifier Circuit



Note
VDH5183005PW

Fig. 7-2

Amplifier Circuit



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER OR OSCILLOSCOPE WITHOUT INPUT SIGNAL.
   CONDITION --- CD STOP MODE AT DC 12V
2. UNLESS OTHERWISE SPECIFIED , RESISTORS ARE 1/6W 15% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN mH(m=mH).
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).
   ALL DIODES ARE 1SS133T OR MA165
   ALL NPN TRANSISTORS ARE 2SC2785(F-E).

*MARK PARTS LIST

PARTS	J	C	U	E/EN/G/GI	B
Q931	DMC0251-V01	DMC0263-004	DMC0263-002	←	←
S991	———	———	VMZ0068-001	———	———
T991	VTP5742-12K	VTP5742-12K	VTP5722-120	VTP5772-120	←
F991	———	———	QMF51E2-R315J1	———	———
F992	QMF51N2-3R0J1	←	QMF51E2-3R15J1	←	←
F993	———	QMF51N2-3R0J1	———	———	———
R155·R255	22K	←	←	18K	←
D903	———	MA700A or RB721Q	←	←	←
POWER CORD	QMP1350-183	QMP1230-183	QMP7350-150	QMP39F0-183	QMP5520-183
AC VOLTAGE	120V/60Hz	←	110-127V, 220-240V /50-60Hz	230V/50-60Hz	240V/50-60Hz

Note
VDH5183005AV

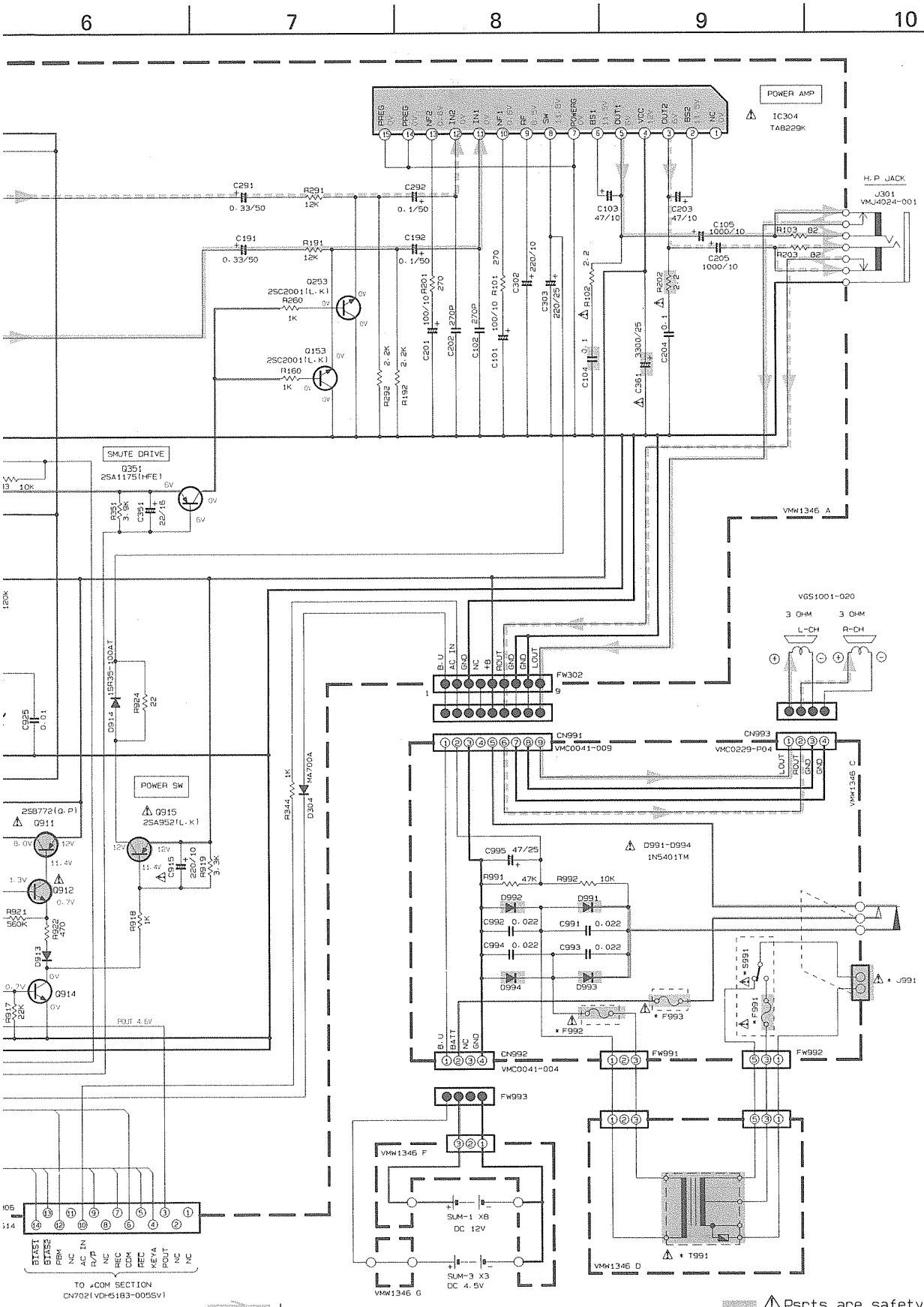
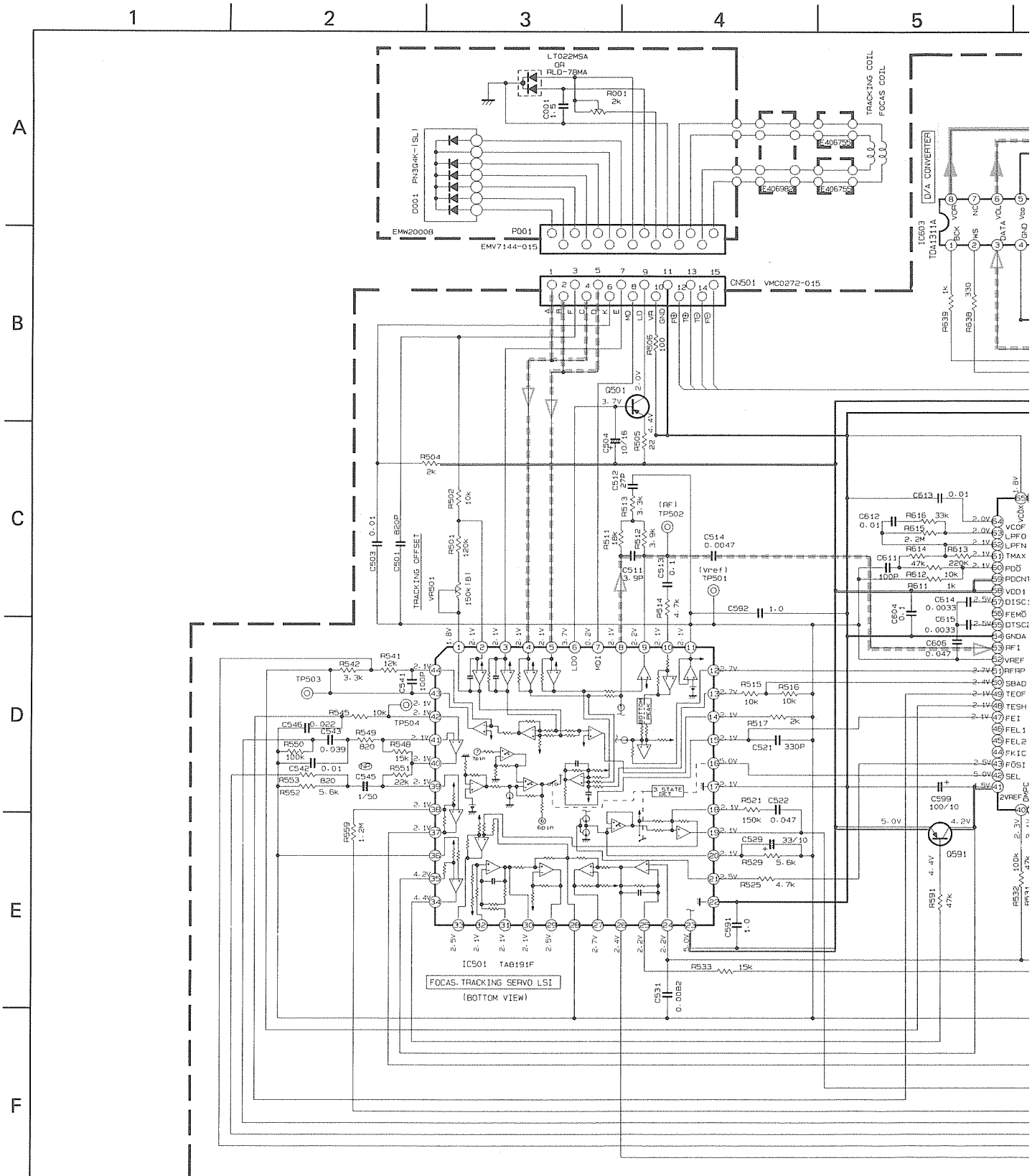

6
7
8
9
10
POWER AMP
IC304
TAB2290K
H.P JACK
J301
VMJ4024-001
SMUTE DRIVE
Q351
2SA1175(HFE)
POWER SW
Q911
2SB772(Q,P)
Q915
2SA952(L,K)
Q912
Q914
VMW1346 A
VMW1346 C
VMW1346 D
VMW1346 F
VMW1346 G
VGS1001-020
3 OHM
L-CH
R-CH
FW302
CN991
VMC0041-009
CN993
VMC0229-P04
CN992
VMC0041-004
FW991
FW992
FW993
D991-D994
1N5401TM
SUM-1 X8
DC 12V
SUM-3 X3
DC 4.5V
TO μCOM SECTION
CN702(VDH5183-0055V)
To F-7 on page 45
Radio signal
MIC Signal
U Version only
Playback/CD Signal
Recording signal
Psrts are safety assurance parts.
When replacing those parts make
sure to use the specified one.
+B LINE

Fig. 7-3

■ CD Amplifier Circuit



NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER IN PLAYBACK
2. UNLESS OTHERWISE SPECIFIED · RESISTORS ARE 1/6W ±5% CARBON RESISTOR.
   ALL RESISTANCE VALUES ARE IN OHM(Ω).
   ALL CAPACITORS ARE CERAMIC CAPACITOR OR MYLAR CAPACITOR.
   ALL CAPACITANCE VALUES ARE IN μF(P=pF).
   ALL INDUCTANCE VALUES ARE IN μH(m=mH).
   ALL E-CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF)/RATED VOLTAGE (V).

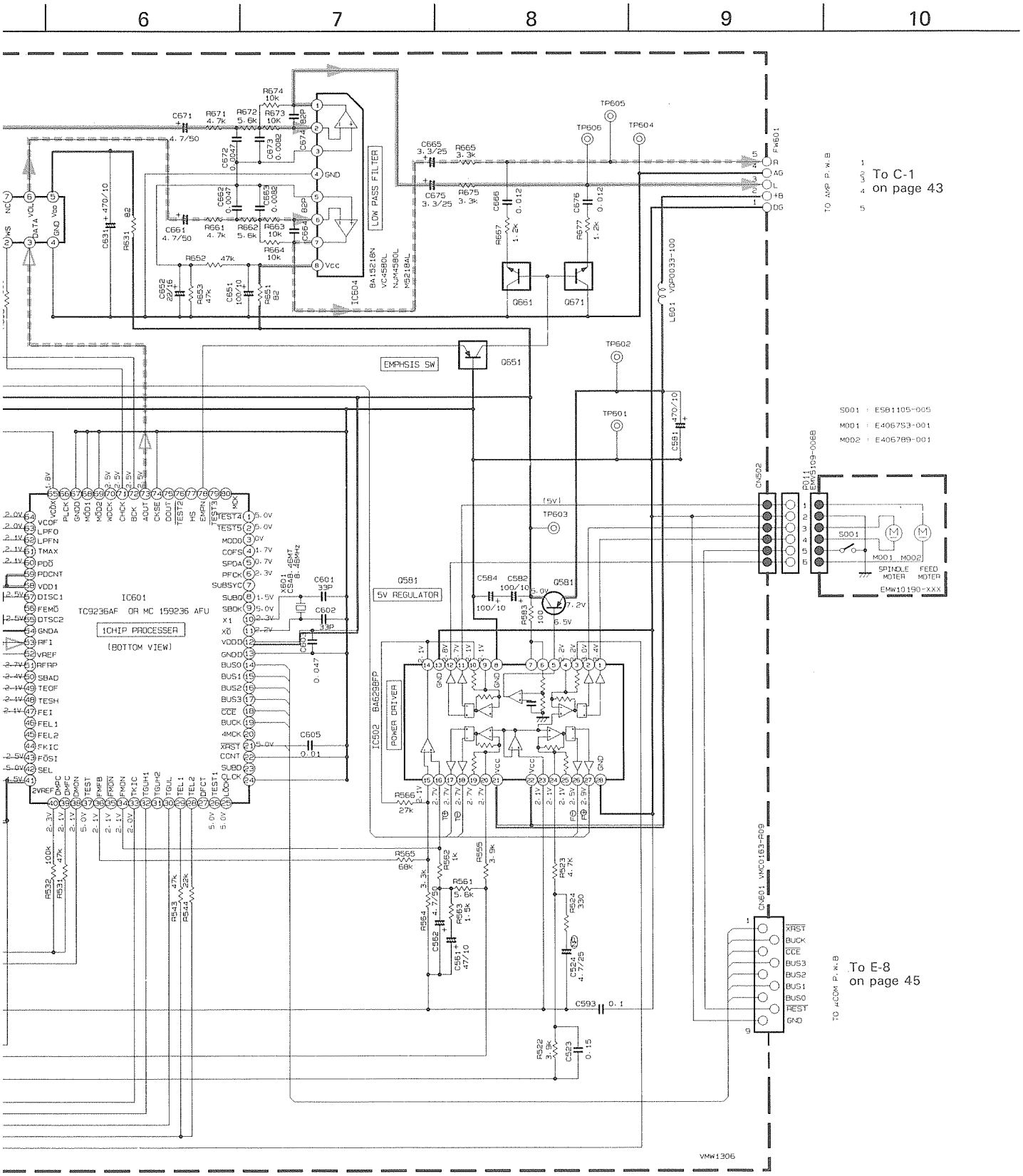
(CF) UNFLAMMABLE CARBON RESISTOR
(MF) METAL FILM RESISTOR
(OM) OXIDE METAL FILM RESISTOR
(LL) ±20% LOW LEAK CURRENT ELECTROLYTIC CAPACITOR
(NP) NON-POLARISED ELECTROLYTIC CAPACITOR
(PP) POLYPROPYLENE CAPACITOR
(PS) POLYSTYROL CAPACITOR

Q501	2SA952(L,K)
Q591	
Q591	2SA1309(A,S) OR 2SA1175(HFE) OR 2SA933S(RS)
Q651	DTA114TS OR BN1A4Z
Q661	DTC114TS OR BA1A4Z
Q671	

Q671, Q661 →

Q651 →

Note
VDH5183005CV

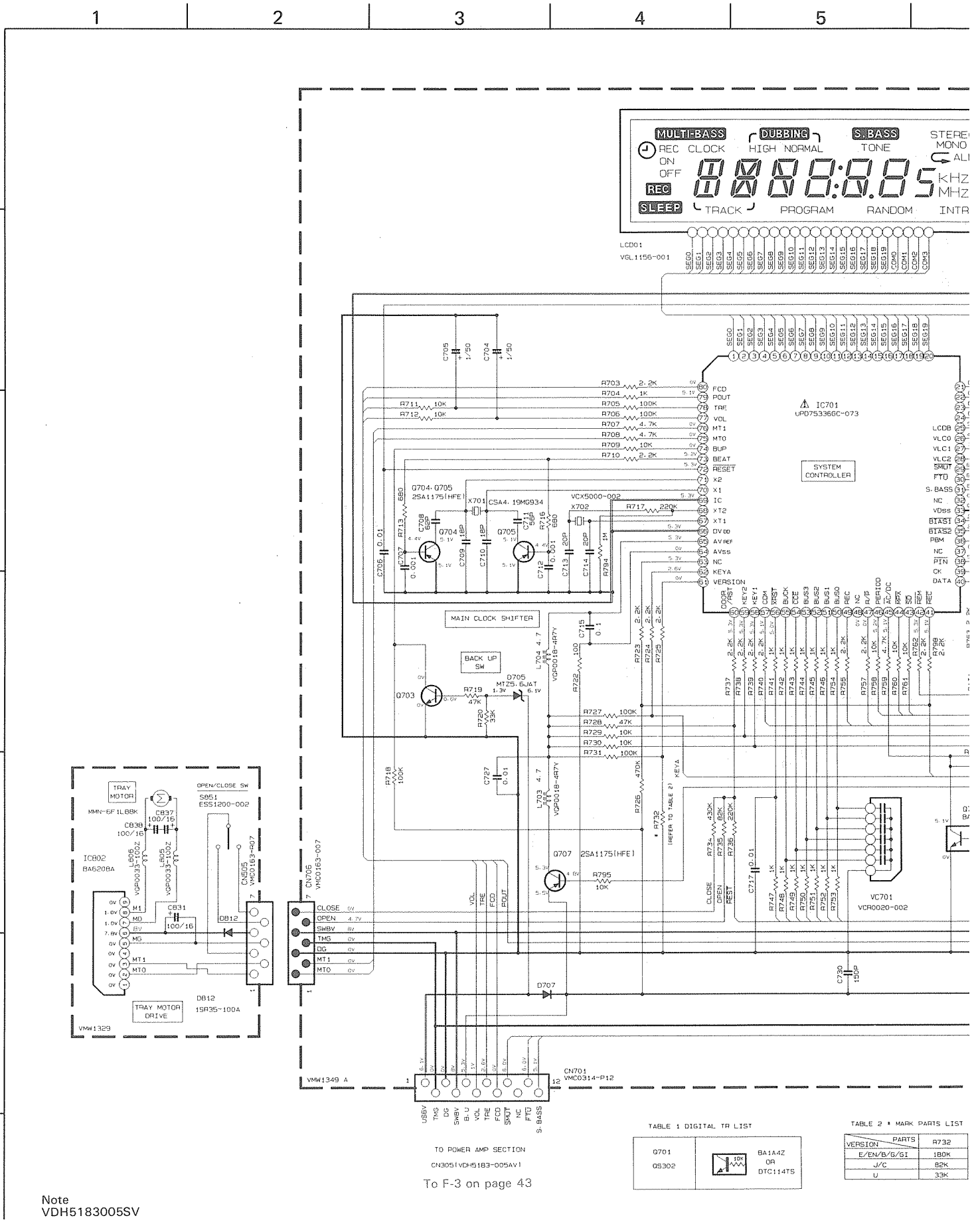


L Analog signal
R
Digital signal

+B LINE

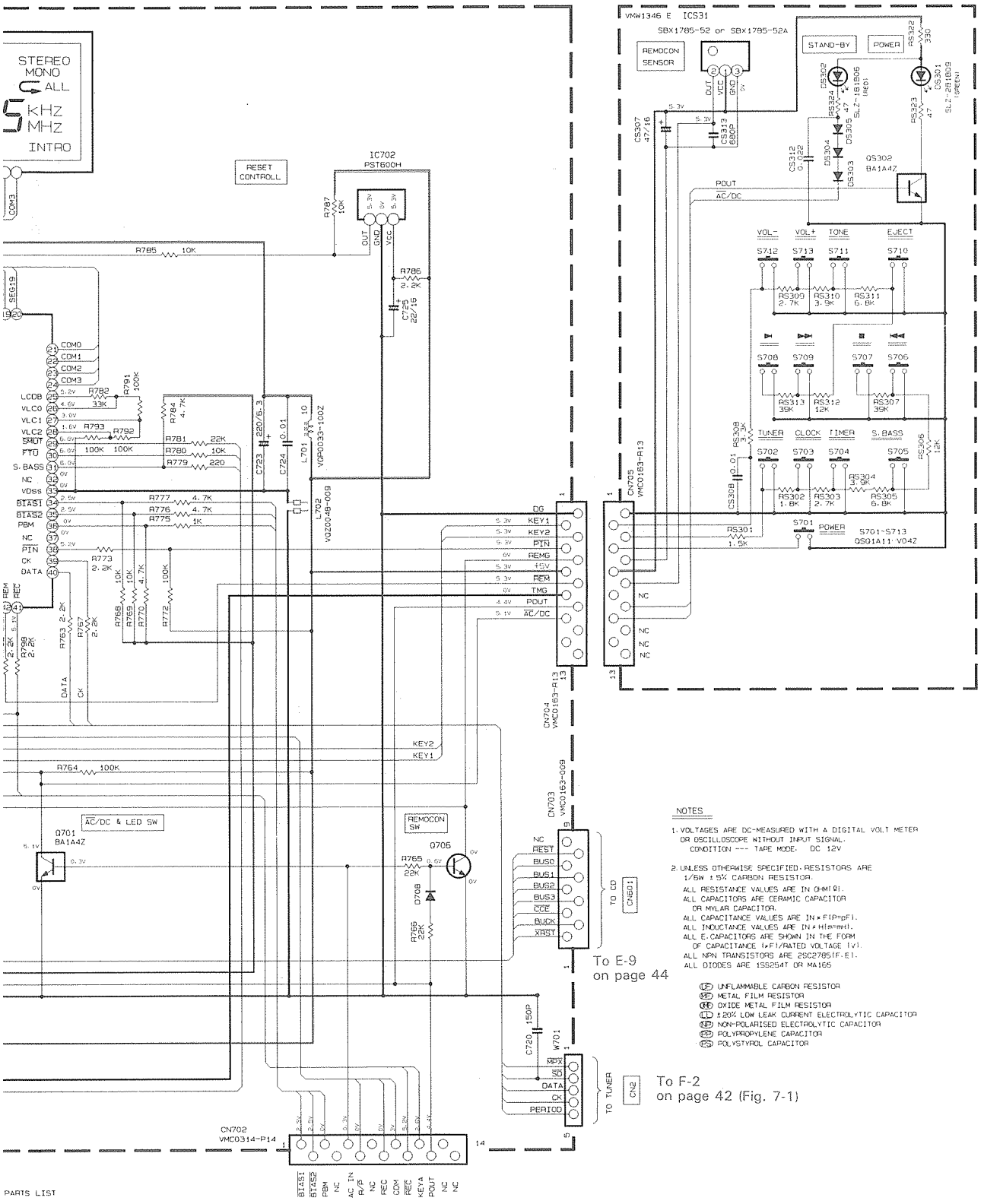
Fig. 7-4

System Microprocessor Circuit



To F-3 on page 43

Note
VDH5183005SV



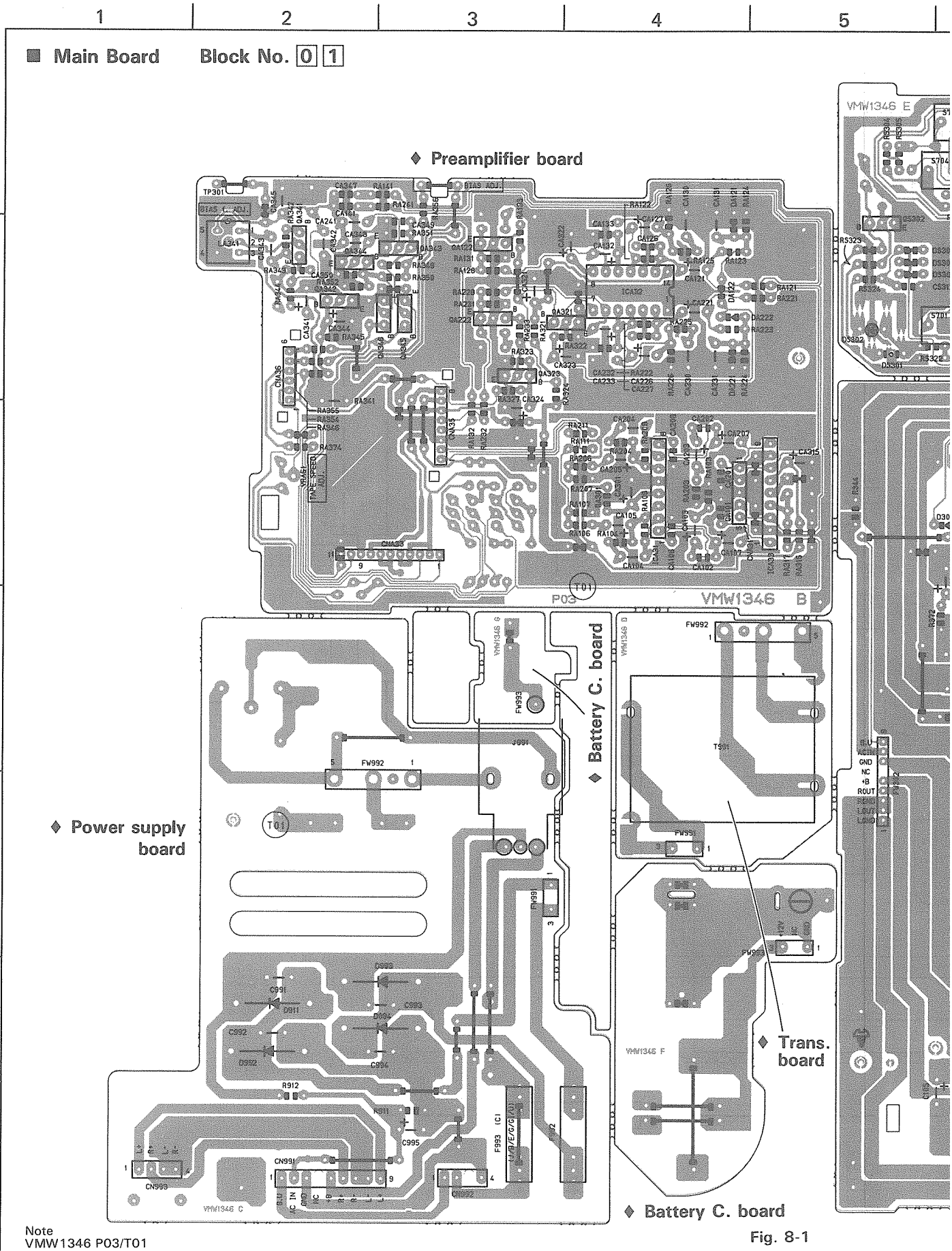
PARTS LIST

R732
180K
82K
33K

Fig. 7-5

8 Location of P.C. Board Parts and Parts List

■ Main Board Block No. 0 1

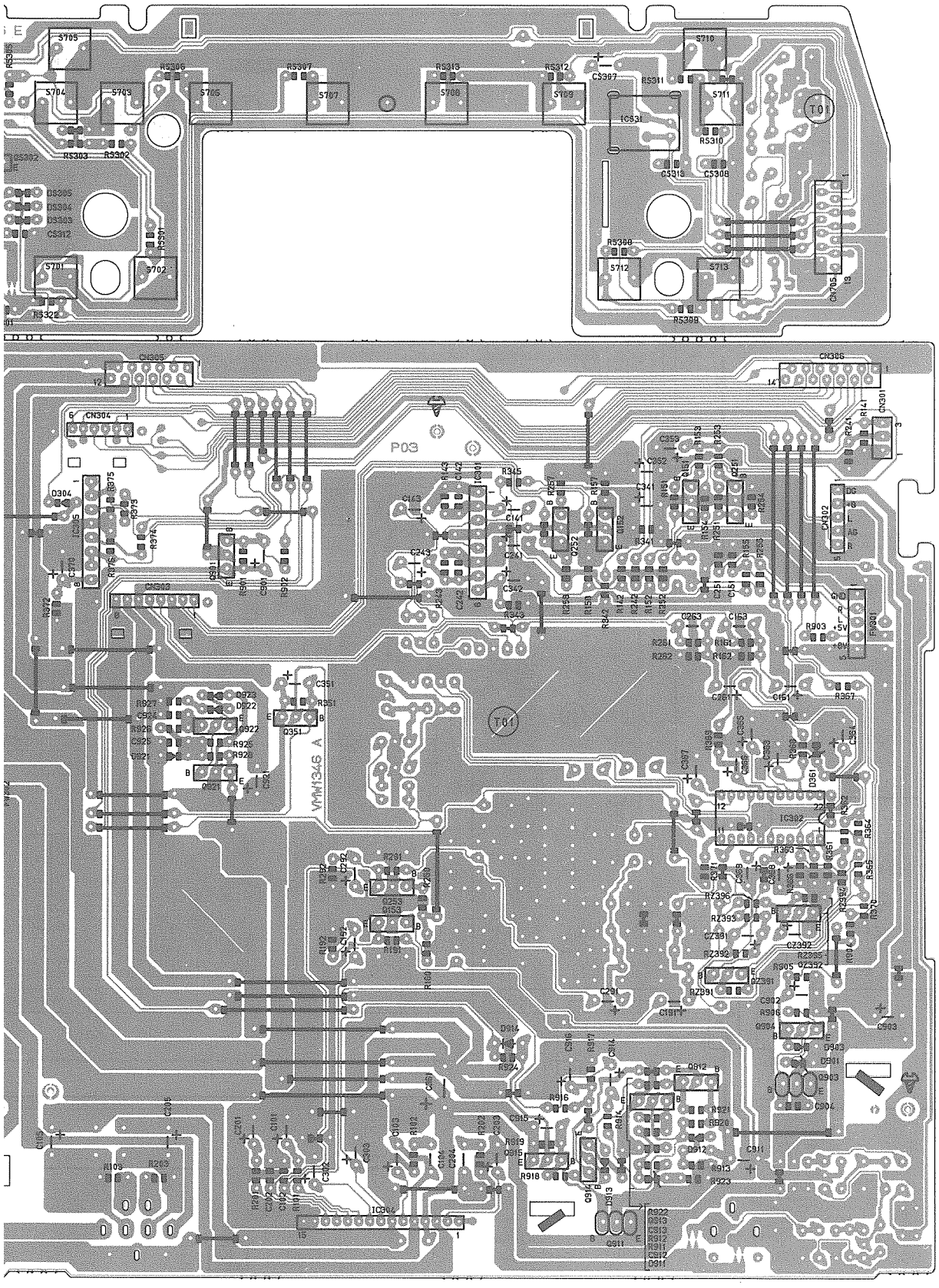


Note
VMW1346 P03/T01

Fig. 8-1

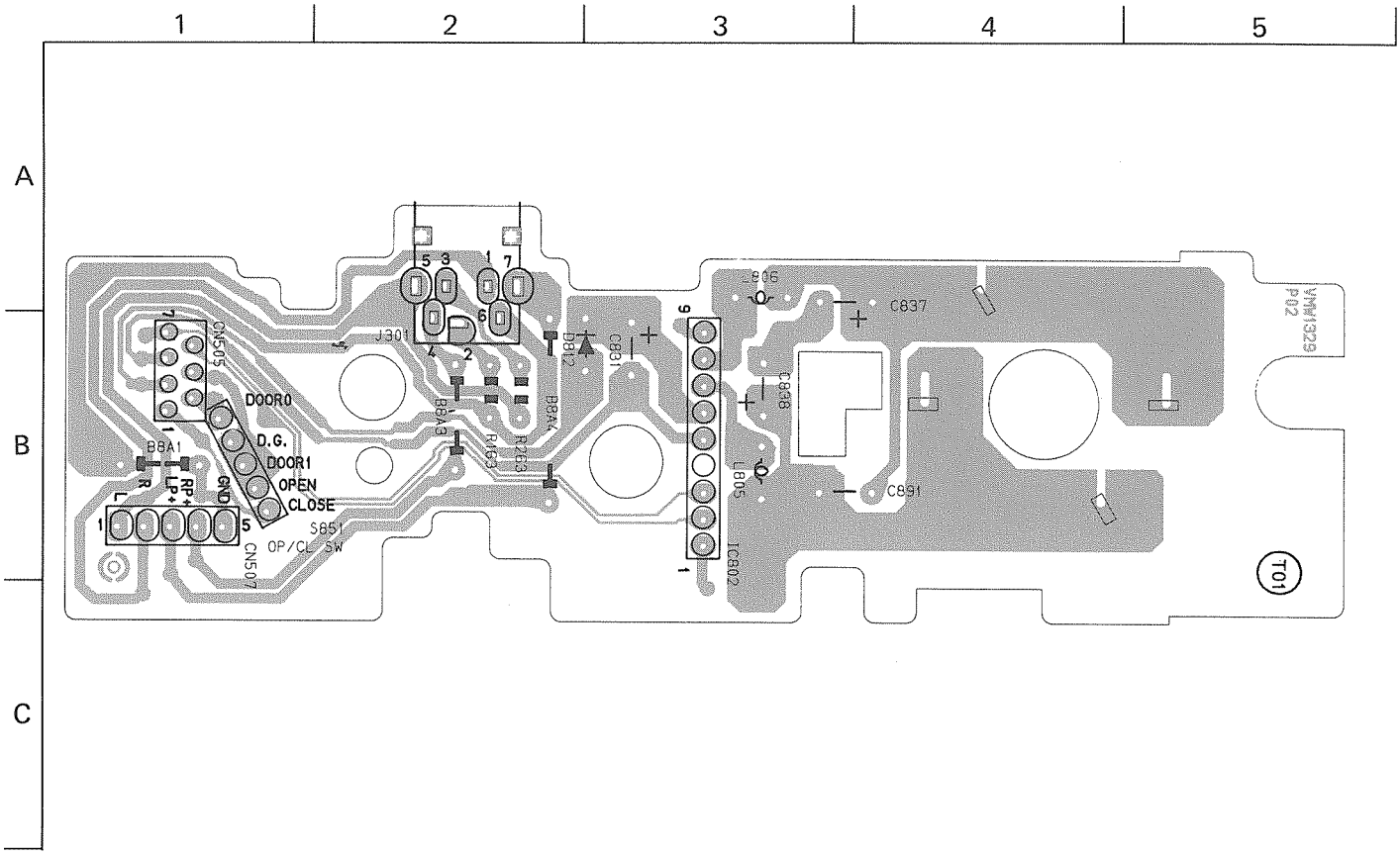
6 7 8 9 10

♦ Key switch board



♦ Main (power amplifier) board

■ Loading Motor Board



• Loading Motor Board Parts List

BLOCK NO. 05MM□□□

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	C 831	QEK61CM-107ZN	E.CAPACITOR	100MF 20% 16V	1		
	C 837	QEK61CM-107ZN	E.CAPACITOR	100MF 20% 16V	1		
	C 838	QEK61CM-107ZN	E.CAPACITOR	100MF 20% 16V	1		
	CN505	VMC0163-R07	CONNECTOR	MICOM/TRAY SW	1		
	D 812	1SR35-100A	SI DIODE		1		
	IC802	BA6208A	IC		1		
	L 805	VQP0033-100Z	INDUCTOR	-S001(VQP0033-1	2		
	L 806	VQP0033-100Z	INDUCTOR	-S001(VQP0033-1	2		
	S 851	ESS1200-002	SWITCH		1		

● Main board parts list

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	PIN	VMZ0015-012	STYLE PIN	WIRE CLAMP	
	PIN	VMZ0015-011	STYLE PIN	WIRE CLAMP	
	C 101	QETC1AM-107ZN	E.CAPACITOR	100MF 20% 10V	
	C 102	QCBB1HK-271Y	C.CAPACITOR	270PF 10% 50V	
	C 103	QETC1AM-476ZN	E.CAPACITOR	BS BS	
	C 104	QFV41HJ-104	FILM CAPACITOR	.10MF 5% 50V	
	C 105	QETC1AM-108ZN	E.CAPACITOR	OUT CUP	
	C 141	QER41CM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 142	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	C 143	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 151	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 161	QER61HM-474ZM	E.CAPACITOR	.47MF 20% 50V	
	C 163	QFLC1HJ-102ZM	M.CAPACITOR	1000PF 5% 50V	
	C 191	QER41HM-334VM	E.CAPACITOR	.33MF 20% 50V	
	C 192	QER41HM-104M	E.CAPACITOR	.10MF 20% 50V	
	C 201	QETC1AM-107ZN	E.CAPACITOR	100MF 20% 10V	
	C 202	QCBB1HK-271Y	C.CAPACITOR	270PF 10% 50V	
	C 203	QETC1AM-476ZN	E.CAPACITOR	BS BS	
	C 204	QFV41HJ-104	FILM CAPACITOR	.10MF 5% 50V	
	C 205	QETC1AM-108ZN	E.CAPACITOR	OUT CUP	
	C 241	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 242	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	C 243	QER41EM-475VM	E.CAPACITOR	4.7MF 20% 25V	
	C 251	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 261	QER61HM-474ZM	E.CAPACITOR	.47MF 20% 50V	
	C 263	QFLC1HJ-102ZM	M.CAPACITOR	1000PF 5% 50V	
	C 291	QER41HM-334VM	E.CAPACITOR	.33MF 20% 50V	
	C 292	QER41HM-104M	E.CAPACITOR	.10MF 20% 50V	
	C 302	QETC1AM-227ZN	E.CAPACITOR	RF	
	C 303	QETC1EM-227ZN	E.CAPACITOR	SW	
	C 341	QETC1AM-476ZN	E.CAPACITOR	47MF 20% 10V	
	C 342	QEK61AM-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 351	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
	C 352	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 353	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 361	QETM1EM-338	E.CAPACITOR	DECUP	
	C 363	QETC1AM-476ZN	E.CAPACITOR	TONE	
	C 364	QETC1AM-476ZN	E.CAPACITOR	47MF 20% 10V	
	C 365	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	C 366	QEK61AM-107ZM	E.CAPACITOR	VCC	
	C 367	QETC1AM-476ZN	E.CAPACITOR	VG	
	C 368	QETC1AM-476ZN	E.CAPACITOR	VOL	
	C 369	QEK41EM-475	E.CAPACITOR	DC	
	C 370	QEK61AM-107ZM	E.CAPACITOR	VOL BUFF	
	C 901	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
	C 902	QETC1CM-106ZN	E.CAPACITOR	10MF 20% 16V	
	C 903	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
	C 904	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 911	QEK61AM-107ZM	E.CAPACITOR	100MF 20% 10V	
	C 912	QCVB1CN-103Y	C.CAPACITOR	DECAP	
	C 913	QCBB1HK-561Y	C.CAPACITOR	NOISE	
	C 914	QEK41HM-105	E.CAPACITOR	PULSE	
	C 915	QETC1AM-227ZN	E.CAPACITOR	P SW	
	C 916	QETC1CM-106ZN	E.CAPACITOR	10MF 20% 16V	
	C 921	QEK61AM-107ZM	E.CAPACITOR	100MF 20% 10V	

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⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 924	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 925	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 991	QCF11HP-223	C.CAPACITOR	.022MF +100:-0%	
	C 992	QCF11HP-223	C.CAPACITOR	.022MF +100:-0%	
	C 993	QCF11HP-223	C.CAPACITOR	.022MF +100:-0%	
	C 994	QCF11HP-223	C.CAPACITOR	.022MF +100:-0%	
	C 995	QETC1EM-476ZN	E.CAPACITOR	AC IN	
	CA101	QCBB1HK-561Y	C.CAPACITOR	560PF 10% 50V	
	CA102	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	CA103	QETC1AM-107ZN	E.CAPACITOR	100MF 20% 10V	
	CA104	QFV41HJ-123	FILM CAPACITOR	.012MF 5% 50V	
	CA105	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CA106	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	CA107	QEK41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	CA121	QETC1EM-475	E.CAPACITOR	4.7MF 20% 25V	
	CA126	QCS11HJ-220	C.CAPACITOR	22PF 5% 50V	
	CA127	QETC1CM-226ZN	E.CAPACITOR	22MF 20% 16V	
	CA130	QFV81HJ-473	FILM CAPACITOR	.047MF 5% 50V	
	CA131	QFV11HJ-124ZN	FILM CAPACITOR	.12MF 5% 50V	
	CA132	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	CA133	QCBB1HK-221Y	C.CAPACITOR	220PF 10% 50V	
	CA141	QCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
	CA201	QCBB1HK-561Y	C.CAPACITOR	560PF 10% 50V	
	CA202	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	CA203	QETC1AM-107ZN	E.CAPACITOR	100MF 20% 10V	
	CA204	QFV41HJ-123	FILM CAPACITOR	.012MF 5% 50V	
	CA205	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	CA206	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	CA207	QEK41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	CA221	QETC1EM-475	E.CAPACITOR	4.7MF 20% 25V	
	CA226	QCS11HJ-220	C.CAPACITOR	22PF 5% 50V	
	CA227	QETC1CM-226ZN	E.CAPACITOR	22MF 20% 16V	
	CA230	QFV81HJ-473	FILM CAPACITOR	.047MF 5% 50V	
	CA231	QFV11HJ-124ZN	FILM CAPACITOR	.12MF 5% 50V	
	CA232	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	CA233	QCBB1HK-221Y	C.CAPACITOR	220PF 10% 50V	
	CA241	QCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
	CA301	QETC1AM-107ZN	E.CAPACITOR	100MF 20% 10V	
	CA315	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	CA321	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	CA322	QEK41CM-476	E.CAPACITOR	47MF 20% 16V	
	CA323	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	CA324	QEK41EM-335	E.CAPACITOR	3.3MF 20% 25V	
	CA341	QEK41CM-106	E.CAPACITOR	10MF 20% 16V	
	CA342	QFV71HJ-103	FILM CAPACITOR	.010MF 5% 50V	
	CA343	QFV81HJ-183	FILM CAPACITOR	.018MF 5% 50V	
	CA344	QEK41HM-104	E.CAPACITOR	.10MF 20% 50V	
	CA345	QFP31HJ-102ZM	PP.CAPACITOR	1000PF 5% 50V	
	CA347	QCS11HJ-101	C.CAPACITOR	100PF 5% 50V	
	CA348	QCS11HJ-201	C.CAPACITOR	200PF 5% 50V	
	CA349	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	CA350	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	CNA31	VMC0040-005Z	CONNECTOR	TO R/P HEAD	
	CNA33	VMC0075-009N	CONNECTOR	TO MECHA SW	
	CNA35	VMC0309-P08	PWB CONNECTOR	TO MAIN	

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⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	CNA36	VMC0309-P06	PWB CONNECTOR	TO MAIN	
	CN301	VMC0041-003	CONNECTOR	TEST POINT	
	CN302	EMV7112-005R	SOCKET	CD	
	CN303	VMC0310-S08	CONNECTOR	MAIN-PRE	
	CN304	VMC0310-S06	CONNECTOR	MAIN-PRE	
	CN305	VMC0314-S12	CONNECTOR	MAIN-U-COM	
	CN306	VMC0314-S14	CONNECTOR	MAIN-U-COM	
	CN705	VMC0163-R13	CONNECTOR	TO UCOM	
	CN991	VMC0041-009	CONNECTOR	TRANS-MAIN	
	CN992	VMC0041-004	CONNECTOR	TRANS-BATT	
	CN993	VMC0229-P04	CONNECTOR	SPEAKER	
	CS307	QEK41CM-476	E.CAPACITOR	REM DECUP	
	CS308	QCVB1CN-103Y	C.CAPACITOR	M.NOIS	
	CS312	QCFB1HZ-223	C.CAPACITOR	STB LED	
	CS313	QCBB1HK-681Y	C.CAPACITOR	REM OUT	
	CZ391	QEK41HM-225	E.CAPACITOR	2.2MF 20% 50V	
	CZ392	QEK41EM-475	E.CAPACITOR	4.7MF 20% 25V	
	D 304	MA700A	S.B.DIODE	(FOR B.U)	
	D 361	MTZ5.1JB	ZENER DIODE		
	D 901	MTZ5.1JC	ZENER DIODE		
	D 903	MA700A	S.B.DIODE		
	D 911	MA4075(M)	ZENER DIODE		
	D 912	1SS133	SI DIODE		
	D 913	1SS133	SI DIODE		
	D 914	1SR35-100A	SI DIODE		
	D 921	RD5.6JSAB2-T2	ZENER DIODE		
	D 922	1SS133	SI DIODE		
	D 923	1SS133	SI DIODE		
⚠	D 991	1N5401TM	SI DIODE		
⚠	D 992	1N5401TM	SI DIODE		
⚠	D 993	1N5401TM	SI DIODE		
⚠	D 994	1N5401TM	SI DIODE		
	DA121	MA165	SI DIODE		
	DA122	MA165	SI DIODE		
	DA221	MA165	SI DIODE		
	DA222	MA165	SI DIODE		
	DS301	SLZ-281B09-T6	LED	POWER	
	DS302	SLZ-181B06-T2	LED	STANDBY	
	DS303	MA165	SI DIODE	ST-BY	
	DS304	MA165	SI DIODE	ST-BY	
	DS305	MA165	SI DIODE	ST-BY	
	ICA31	UPC1228HA	IC	PB AMP	
	ICA32	LA3220	IC	REC AMP	
	ICA33	BA3126N	IC	HEAD SWITCH	
	ICS31	SBX1785-52A	RM RECIVER		
	IC301	BA15218N	IC	FUNCTION	
	IC302	CXA1792S	IC	TONE VOL	
⚠	IC304	TA8229K	IC	POWER AMP	
	IC305	BA10358N	IC	VOL BUFF	
	J 301	VMJ4024-001	JACK	HP JACK	
⚠	J 991	QMC0263-004	AC SOCKET		
	LA341	VQH7001-029	OSC COIL(BIAS)	COIL	
	Q 151	2SC1740S(R,S)	TRANSISTOR		
	Q 152	2SC2785	TRANSISTOR		
	Q 153	2SD1302	TRANSISTOR		

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	Q 251	2SC1740S(R,S)	TRANSISTOR		
	Q 252	2SC2785	TRANSISTOR		
	Q 253	2SD1302	TRANSISTOR		
	Q 351	2SA1175	TRANSISTOR		
	Q 901	2SA1175	TRANSISTOR	TUNER SW	
⚠	Q 903	2SB772(Q,P)	TRANSISTOR	CD REG	
	Q 904	2SC1740S(R,S)	TRANSISTOR		
⚠	Q 911	2SB772(Q,P)	TRANSISTOR	SW 8V REG	
	Q 912	2SC1740S(R,S)	TRANSISTOR		
	Q 913	2SC1740S(R,S)	TRANSISTOR		
	Q 914	2SC1740S(R,S)	TRANSISTOR		
	Q 915	2SA952(L,K)	TRANSISTOR	POWER SW	
⚠	Q 921	2SB562(C)	TRANSISTOR	US 6V REG	
	Q 922	2SC1740S(R,S)	TRANSISTOR		
	QA122	2SD1302	TRANSISTOR	REC MUTE	
	QA222	2SD1302	TRANSISTOR	REC MUTE	
	QA321	DTC114YS	TRANSISTOR	ALC SW	
	QA323	2SC1740S(R,S)	TRANSISTOR	R MUTE DRIVE	
	QA341	2SC945L(P,Q)	TRANSISTOR		
	QA342	2SC2785	TRANSISTOR		
	QA343	2SC2785	TRANSISTOR		
	QA344	2SC2785	TRANSISTOR		
	QA345	2SC2785	TRANSISTOR		
	QA346	2SC2785	TRANSISTOR		
	QS302	DTC114TS	TRANSISTOR	P LED SW	
	QZ391	2SC1740S(R,S)	TRANSISTOR		
	QZ392	2SC1740S(R,S)	TRANSISTOR		
	R 101	QRD161J-271	CARBON RESISTOR	270 5% 1/6W	
⚠	R 102	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R 103	QRD161J-820	CARBON RESISTOR	82 5% 1/6W	
	R 141	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 142	QRD161J-363	CARBON RESISTOR	36K 5% 1/6W	
	R 143	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
	R 151	QRD161J-363	CARBON RESISTOR	36K 5% 1/6W	
	R 152	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 153	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 154	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 155	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 157	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 158	QRD161J-203	CARBON RESISTOR	20K 5% 1/6W	
	R 160	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 161	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 162	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 191	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 192	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 201	QRD161J-271	CARBON RESISTOR	270 5% 1/6W	
⚠	R 202	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R 203	QRD161J-820	CARBON RESISTOR	82 5% 1/6W	
	R 241	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 242	QRD161J-363	CARBON RESISTOR	36K 5% 1/6W	
	R 243	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
	R 251	QRD161J-363	CARBON RESISTOR	36K 5% 1/6W	
	R 252	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 253	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 254	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 255	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 257	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 258	QRD161J-203	CARBON RESISTOR	20K 5% 1/6W	
	R 260	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 261	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 262	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 291	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 292	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 341	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 342	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 343	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R 344	QRD161J-102	CARBON RESISTOR	(FOR AC IN)	
	R 345	QRD161J-822	CARBON RESISTOR	8.2K 5% 1/6W	
	R 351	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 361	QRD161J-223	CARBON RESISTOR	400HZ	
	R 362	QRD161J-223	CARBON RESISTOR	400HZ BB172	
	R 363	QRD161J-223	CARBON RESISTOR	100HZ	
	R 364	QRD161J-273	CARBON RESISTOR	100HZ	
	R 365	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 366	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 367	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 368	QRD161J-182	CARBON RESISTOR	1.8K 5% 1/6W	
	R 369	QRD161J-2R2	CARBON RESISTOR	2.2 5% 1/6W	
	R 370	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 371	QRD161J-274	CARBON RESISTOR	270K 5% 1/6W	
	R 372	QRD161J-101	CARBON RESISTOR	VOL BUFF	
	R 373	QRD161J-102	CARBON RESISTOR	VOL BUFF	
	R 374	QRD161J-102	CARBON RESISTOR	VOL BUFF	
	R 375	QRD161J-222	CARBON RESISTOR	VOL BUFF	
	R 376	QRD167J-332	CARBON RESISTOR	TRE BUFF	
	R 901	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 904	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 905	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	R 906	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	R 911	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 912	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 913	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 914	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 916	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 917	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 918	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 919	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 920	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 921	QRD161J-564	CARBON RESISTOR	560K 5% 1/6W	
	R 922	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 923	QRD167J-121	CARBON RESISTOR	120 5% 1/6W	
	R 924	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
	R 925	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	R 926	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 927	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 928	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
	R 991	QRD161J-473	CARBON RESISTOR	AC IN	
	R 992	QRD161J-103	CARBON RESISTOR	AC IN	
	RA103	QRD161J-680	CARBON RESISTOR	68 5% 1/6W	
	RA104	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	RA106	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	RA107	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	RA108	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	RA111	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	RA121	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	RA122	QRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
	RA123	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	RA124	QRD161J-821	CARBON RESISTOR	820 5% 1/6W	
	RA125	QRD161J-330	CARBON RESISTOR	33 5% 1/6W	
	RA126	QRD161J-561	CARBON RESISTOR	560 5% 1/6W	
	RA128	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RA131	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RA132	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	RA133	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RA141	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RA203	QRD161J-680	CARBON RESISTOR	68 5% 1/6W	
	RA204	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	RA206	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	RA207	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	RA208	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	RA211	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	RA221	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	RA222	QRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
	RA223	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	RA224	QRD161J-821	CARBON RESISTOR	820 5% 1/6W	
	RA225	QRD161J-330	CARBON RESISTOR	33 5% 1/6W	
	RA226	QRD161J-561	CARBON RESISTOR	560 5% 1/6W	
	RA228	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RA231	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RA232	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	RA233	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RA241	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RA301	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	RA315	QRD161J-221	CARBON RESISTOR	220 5% 1/6W	
	RA317	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	RA321	QRD167J-121	CARBON RESISTOR	120 5% 1/6W	
	RA322	QRD161J-475	CARBON RESISTOR	4.7M 5% 1/6W	
	RA323	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	RA324	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RA327	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	RA341	QRD14CJ-121SX	CARBON RESISTOR	120 5% 1/4W	
	RA342	QRD161J-151	CARBON RESISTOR	150 5% 1/6W	
	RA343	QRD161J-6R8	CARBON RESISTOR	6.8 5% 1/6W	
	RA344	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	RA345	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	RA346	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RA349	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	RA350	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	RA351	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RA352	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	RA354	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RA355	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	RA356	QRD161J-181	CARBON RESISTOR	180 5% 1/6W	
	RA374	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	RA380	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	

BLOCK NO. 01

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	RS301	QRD161J-152	CARBON RESISTOR	RUDDER	
	RS302	QRD161J-182	CARBON RESISTOR	I BB134	
	RS303	QRD161J-272	CARBON RESISTOR	I	
	RS304	QRD161J-392	CARBON RESISTOR	I BB135	
	RS305	QRD167J-682	CARBON RESISTOR	I	
	RS306	QRD161J-123	CARBON RESISTOR	I	
	RS307	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
	RS308	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	RS309	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	RS310	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	RS311	QRD167J-682	CARBON RESISTOR	6.8K 5% 1/6W	
	RS312	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	RS313	QRD161J-393	CARBON RESISTOR	39K 5% 1/6W	
	RS322	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	RS323	QRD161J-470	CARBON RESISTOR	P LED-	
	RS324	QRD161J-470	CARBON RESISTOR	S LED-	
	RZ391	QRD161J-272	CARBON RESISTOR	2.7K 5% 1/6W	
	RZ392	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	RZ393	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	RZ394	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	RZ395	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	RZ396	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	S 701	QSQ1A11-V04Z	TACT SWITCH	POWER	
	S 702	QSQ1A11-V04Z	TACT SWITCH	TUNER	
	S 703	QSQ1A11-V04Z	TACT SWITCH	CLOCK	
	S 704	QSQ1A11-V04Z	TACT SWITCH	TIMER	
	S 705	QSQ1A11-V04Z	TACT SWITCH	S.BASS	
	S 706	QSQ1A11-V04Z	TACT SWITCH	DOWN	
	S 707	QSQ1A11-V04Z	TACT SWITCH	STOP	
	S 708	QSQ1A11-V04Z	TACT SWITCH	PLAY	
	S 709	QSQ1A11-V04Z	TACT SWITCH	UP	
	S 710	QSQ1A11-V04Z	TACT SWITCH	EJECT	
	S 711	QSQ1A11-V04Z	TACT SWITCH	TONE	
	S 712	QSQ1A11-V04Z	TACT SWITCH	VOL-	
	S 713	QSQ1A11-V04Z	TACT SWITCH	VOL+	

System microprocessor board

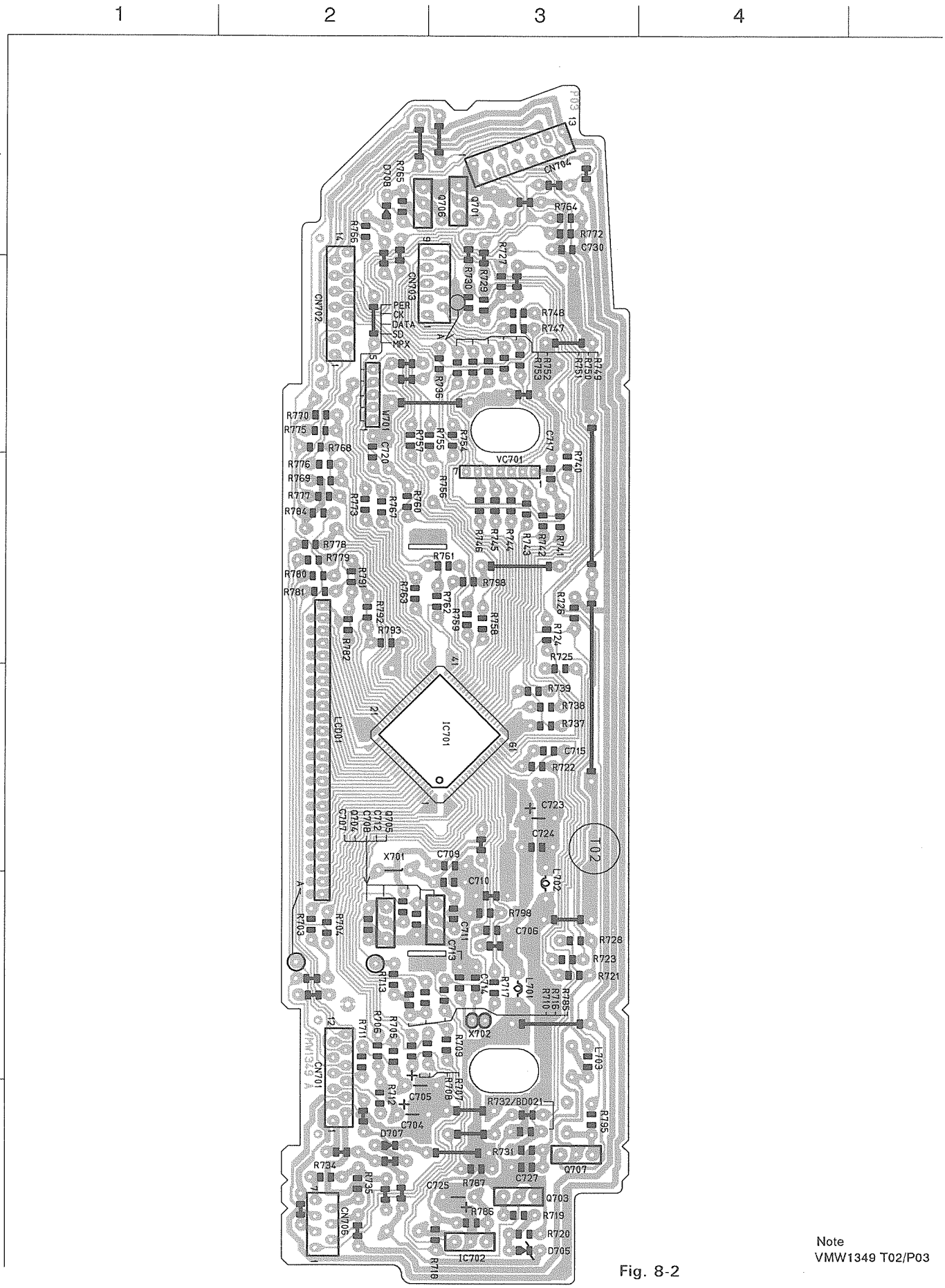


Fig. 8-2

Note
VMW1349 T02/P03

● System microprocessor board parts list

BLOCK NO. 02

△	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 704	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 705	QEK41HM-105	E.CAPACITOR	1.0MF 20% 50V	
	C 706	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 707	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 708	QCSB1HJ-620Y	C.CAPACITOR	62PF 5% 50V	
	C 709	QCT30CH-180Y	C.CAPACITOR	18PF 5% 50V	
	C 710	QCT30CH-180Y	C.CAPACITOR	18PF 5% 50V	
	C 711	QCS11HJ-560	C.CAPACITOR	56PF 5% 50V	
	C 712	QCBB1HK-102Y	C.CAPACITOR	1000PF 10% 50V	
	C 713	QCT30CH-200Y	C.CAPACITOR	20PF 5% 50V	
	C 714	QCT30CH-200Y	C.CAPACITOR	20PF 5% 50V	
	C 715	QCFB1HZ-104Y	C.CAPACITOR	.10MF +80:-20%	
	C 717	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 720	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	C 723	QEK40JM-227	E.CAPACITOR	220MF 20% 6.3V	
	C 724	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 725	QEK41CM-226	E.CAPACITOR	22MF 20% 16V	
	C 727	QCVB1CN-103Y	C.CAPACITOR	.010MF 30% 16V	
	C 730	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	CN701	VMC0314-P12	CONNECTOR	MICOM/MAIN	
	CN702	VMC0314-P14	CONNECTOR	MICOM/MAIN	
	CN703	VMC0163-009	CONNECTOR	TO CD	
	CN704	VMC0163-R13	CONNECTOR	TO KEY SW	
	CN706	VMC0163-007	CONNECTOR	MOTOR/CD SW	
	D 705	MTZ5.6JA	ZENER DIODE		
	D 707	MA165	SI DIODE		
	D 708	MA165	SI DIODE		
	IC701	UPD75336GC-073	IC	SYSTEM MICOM	
	IC702	PST600H-T	IC	RESET IC	
	L 701	VQP0033-100Z	INDUCTOR		
	L 702	VQZ0048-009	INDUCTOR		
	L 703	VQP0018-4R7	INDUCTOR		
	L 704	VQP0018-4R7	INDUCTOR		
	LCD01	VGL1156-001	LCD		
	Q 701	DTC114TS	TRANSISTOR	AC/DC	
	Q 703	2SC1740S(R/S)	TRANSISTOR	BUP SW	
	Q 704	2SA1175	TRANSISTOR	CLK SHIFT	
	Q 705	2SA1175	TRANSISTOR	CLK SHIFT	
	Q 706	2SC1740S(R/S)	TRANSISTOR	REM SW	
	Q 707	2SA1175	TRANSISTOR		
	R 703	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 704	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 705	QRD161J-104	CARBON RESISTOR	TRE	
	R 706	QRD161J-104	CARBON RESISTOR	VOL	
	R 707	QRD161J-472	CARBON RESISTOR	MT1	
	R 708	QRD161J-472	CARBON RESISTOR	MTO	
	R 709	QRD161J-103	CARBON RESISTOR	BUP	
	R 710	QRD161J-222	CARBON RESISTOR	BEAT	
	R 711	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 712	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 713	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 716	QRD161J-681	CARBON RESISTOR	680 5% 1/6W	
	R 717	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 718	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 719	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	

BLOCK NO. 02

△	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 720	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	R 722	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 723	QRD161J-222	CARBON RESISTOR	KEY B	
	R 724	QRD161J-222	CARBON RESISTOR	KEY A	
	R 725	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 726	QRD161J-474	CARBON RESISTOR	470K 5% 1/6W	
	R 727	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 728	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 729	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 730	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 731	QRD161J-104	CARBON RESISTOR	VERSION	
	R 732	QRD161J-184	CARBON RESISTOR	VERSION BD021	
	R 734	QRD161J-434YT	CARBON RESISTOR	CLOSE	
	R 735	QRD161J-823	CARBON RESISTOR	OPEN	
	R 736	QRD161J-224	CARBON RESISTOR	REST	
	R 737	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 738	QRD161J-222	CARBON RESISTOR	KEY 2	
	R 739	QRD161J-222	CARBON RESISTOR	KEY 1	
	R 740	QRD161J-222	CARBON RESISTOR	CDM	
	R 741	QRD161J-102	CARBON RESISTOR	CD	
	R 742	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 743	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 744	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 745	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 746	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 747	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 748	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 749	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 750	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 751	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 752	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 753	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 754	QRD161J-102	CARBON RESISTOR	CD	
	R 755	QRD161J-222	CARBON RESISTOR	RECB	
	R 757	QRD161J-222	CARBON RESISTOR	R/P	
	R 758	QRD161J-103	CARBON RESISTOR	PERIODE	
	R 759	QRD161J-472	CARBON RESISTOR	AC/DC	
	R 760	QRD161J-103	CARBON RESISTOR	MPX	
	R 761	QRD161J-103	CARBON RESISTOR	SD	
	R 762	QRD161J-222	CARBON RESISTOR	REM	
	R 763	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 764	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 765	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 766	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 767	QRD161J-222	CARBON RESISTOR	CK	
	R 768	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 769	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 770	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 772	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 773	QRD161J-222	CARBON RESISTOR	POWER	
	R 775	QRD161J-102	CARBON RESISTOR	PBM	
	R 776	QRD161J-472	CARBON RESISTOR	BIAS 2	
	R 777	QRD161J-472	CARBON RESISTOR	BIAS 1	
	R 779	QRD161J-221	CARBON RESISTOR	AHB	
	R 780	QRD161J-103	CARBON RESISTOR	FTU	

BLOCK NO. 02 [ ] [ ] [ ] [ ]

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 781	QRD161J-223	CARBON RESISTOR	SMUTE	
	R 782	QRD161J-333	CARBON RESISTOR	LCDB	
	R 784	QRD161J-472	CARBON RESISTOR	AHB PUR	
	R 785	QRD161J-103	CARBON RESISTOR	RESET	
	R 786	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 787	QRD161J-103	CARBON RESISTOR	PUR	
	R 791	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 792	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 793	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 794	QRD161J-105	CARBON RESISTOR	1.0M 5% 1/6W	
	R 795	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 798	QRD161J-222	CARBON RESISTOR	D I/O	
	VC701	VCR0020-002	C NETWORK	CD BUS	
	X 701	CSA4.19MG933	CERA LOCK	MAIN	
	X 702	VCX5000-002	CRYSTAL	SUB	

CD Amplifier board parts

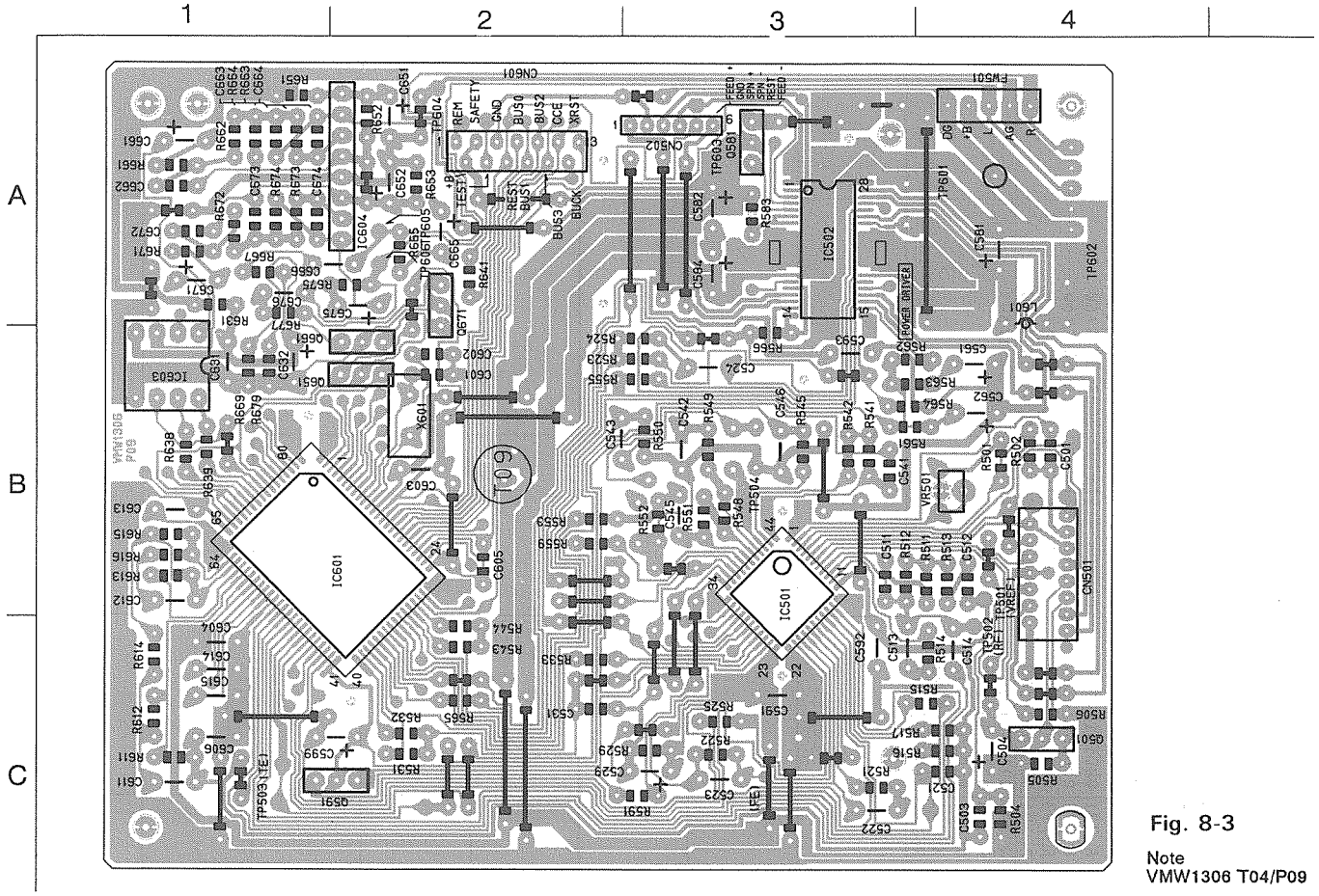


Fig. 8-3

Note
VMW1306 T04/P09

CD Amplifier board parts list

BLOCK NO. 03

A	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 501	QCBB1HK-821Y	C.CAPACITOR	820PF 10% 50V	
	C 503	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 504	QETC1CM-106ZN	E.CAPACITOR	10MF 20% 16V	
	C 511	QCSB1HJ-3R9	C.CAPACITOR	3.9PF 10% 50V	
	C 512	QCS11HJ-270	C.CAPACITOR	27PF 5% 50V	
	C 513	QFLC1HJ-104ZM	M.CAPACITOR	.10MF 5% 50V	
	C 514	QFLC1HJ-472ZM	M.CAPACITOR	4700PF 5% 50V	
	C 521	QCBB1HK-331Y	C.CAPACITOR	330PF 10% 50V	
	C 522	QFLC1HJ-473ZM	M.CAPACITOR	.047MF 5% 50V	
	C 523	QFV81HJ-154	FILM CAPACITOR	.15MF 5% 50V	
	C 524	QEPC1EM-475ZM	NP.E.CAPACITOR	4.7MF 20% 25V	
	C 529	QETC1AM-336ZN	E.CAPACITOR	33MF 20% 10V	
	C 531	QCVB1CM-822Y	C.CAPACITOR	8200PF 20% 16V	
	C 541	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 542	QFLC1HJ-103ZM	M.CAPACITOR	.010MF 5% 50V	
	C 543	QFV41HJ-393ZM	FILM CAPACITOR	.039MF 5% 50V	
	C 545	QEN61HM-105Z	NP.E.CAPACITOR	1.0MF 20% 50V	
	C 546	QFLC1HJ-223ZM	M.CAPACITOR	.022MF 5% 50V	
	C 561	QETC1AM-476ZN	E.CAPACITOR	47MF 20% 10V	
	C 562	QETC1HM-475ZN	E.CAPACITOR	4.7MF 20% 50V	
	C 581	QETC1AM-477ZN	E.CAPACITOR	470MF 20% 10V	
	C 582	QER41AM-107	E.CAPACITOR	100MF 20% 10V	
	C 584	QER41AM-107	E.CAPACITOR	100MF 20% 10V	
	C 591	VCPD012-105Z	C.CAPACITOR		
	C 592	VCPD012-105Z	C.CAPACITOR		
	C 593	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
	C 599	QER41AM-107	E.CAPACITOR	100MF 20% 10V	
	C 601	QCS11HJ-330	C.CAPACITOR	FOR CRYSTAL	
	C 602	QCS11HJ-330	C.CAPACITOR	FOR CRYSTAL	
	C 603	QFV81HJ-473	FILM CAPACITOR	.047MF 5% 50V	
	C 604	QCC11EM-104V	C.CAPACITOR	.10MF 20% 25V	
	C 605	QCVB1CM-103Y	C.CAPACITOR	.010MF 20% 16V	
	C 606	QCC11EM-473V	C.CAPACITOR	.047MF 20% 25V	
	C 611	QCS11HJ-101	C.CAPACITOR	100PF 5% 50V	
	C 612	QFLC1HJ-103ZM	M.CAPACITOR	.010MF 5% 50V	
	C 613	QFLC1HJ-103ZM	M.CAPACITOR	.010MF 5% 50V	
	C 614	QFN41HJ-332	M CAPACITOR	3300PF 5% 50V	
	C 615	QFN41HJ-332	M CAPACITOR	3300PF 5% 50V	
	C 632	QETC1AM-477ZN	E.CAPACITOR	470MF 20% 10V	
	C 651	QETC1AM-107ZN	E.CAPACITOR	100MF 20% 10V	
	C 652	QETC1CM-226ZN	E.CAPACITOR	22MF 20% 16V	
	C 661	QETC1HM-475ZN	E.CAPACITOR	4.7MF 20% 50V	
	C 662	QCXB1CM-472Y	C.CAPACITOR	4700PF 20% 16V	
	C 663	QCVB1CM-822Y	C.CAPACITOR	8200PF 20% 16V	
	C 664	QCBB1HK-820Y	C.CAPACITOR	82PF 10% 50V	
	C 665	QER61EM-335Z	E.CAPACITOR	3.3MF 20% 25V	
	C 666	QCC11EM-123V	C.CAPACITOR	.012MF 20% 25V	
	C 671	QETC1HM-475ZN	E.CAPACITOR	4.7MF 20% 50V	
	C 672	QCXB1CM-472Y	C.CAPACITOR	4700PF 20% 16V	
	C 673	QCVB1CM-822Y	C.CAPACITOR	8200PF 20% 16V	
	C 674	QCBB1HK-820Y	C.CAPACITOR	82PF 10% 50V	
	C 675	QER61EM-335Z	E.CAPACITOR	3.3MF 20% 25V	
	C 676	QCC11EM-123V	C.CAPACITOR	.012MF 20% 25V	
	CN501	VMC0272-015	CONNECTOR	TO PICK UP	
	CN601	VMC0163-R09	CONNECTOR	TO CPU	

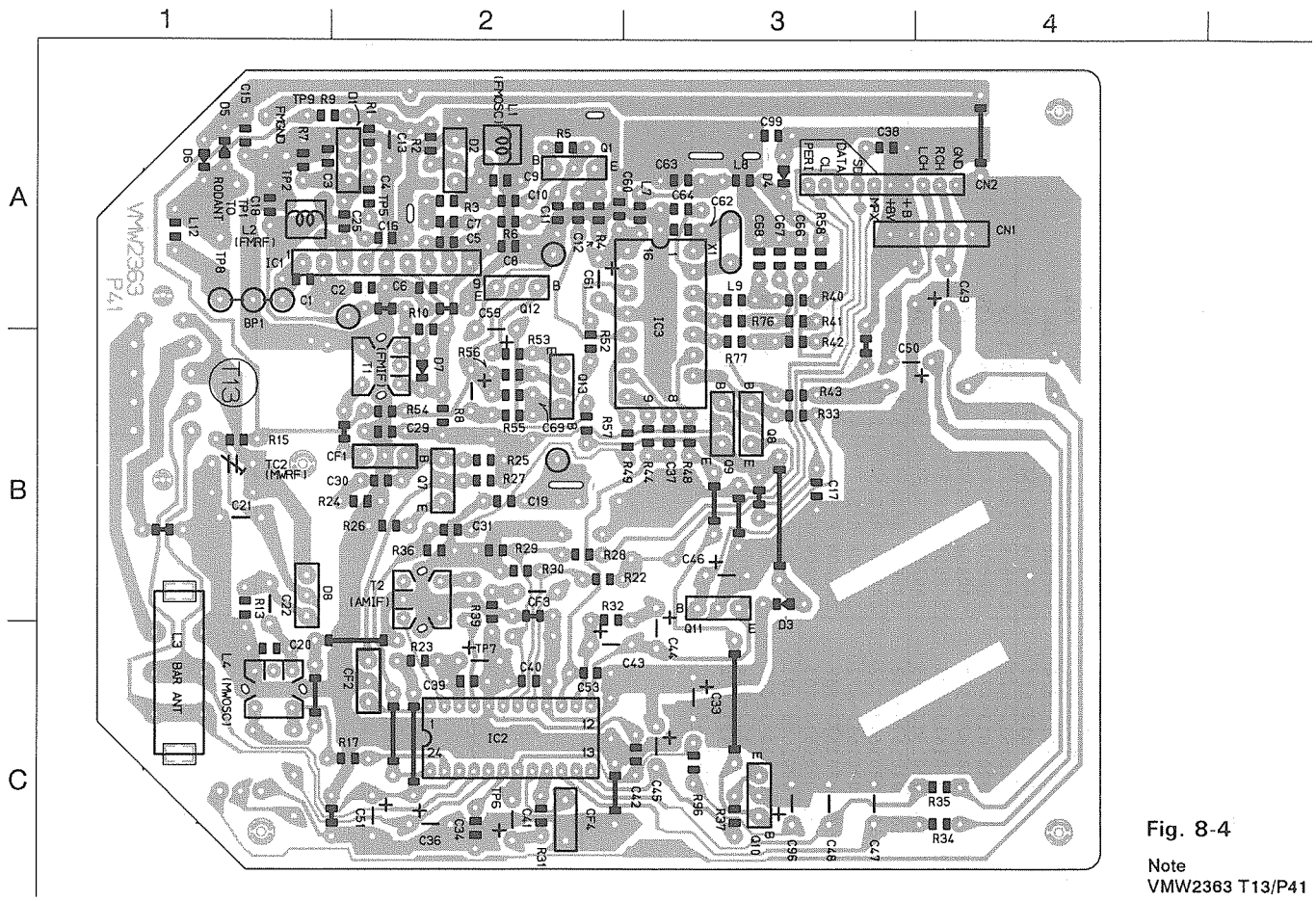
BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	IC501	TA8191F	IC	SERVO LSI	
	IC502	BA6298FP	IC	POWER DRIVER	
	IC601	MC159236AFU	IC	1 CHIP PROCESSE	
	IC603	TDA1311A	IC	D/A CONVERTER	
	IC604	BA15218N	IC	L.P.F	
	L 601	VQP0033-100Z	INDUCTOR	B581	
	Q 501	2SA952(L,K)	TRANSISTOR		
	Q 581	2SA952(L,K)	TRANSISTOR	5V REGULATOR	
	Q 591	2SA1309(RS)	TRANSISTOR		
	Q 651	BN1A4Z-T	TRANSISTOR	EMPHASIS SW	
	Q 661	BA1A4Z-T	TRANSISTOR		
	Q 671	BA1A4Z-T	TRANSISTOR		
	R 501	QRD161J-124	CARBON RESISTOR	120K 5% 1/6W	
	R 502	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 504	QRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
	R 505	QRD161J-220	CARBON RESISTOR	22 5% 1/6W	
	R 506	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 511	QRD161J-183	CARBON RESISTOR	18K 5% 1/6W	
	R 512	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 513	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 514	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 515	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 516	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 517	QRD161J-202	CARBON RESISTOR	2.0K 5% 1/6W	
	R 521	QRD161J-154	CARBON RESISTOR	150K 5% 1/6W	
	R 522	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 523	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 524	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 525	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 529	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 531	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 532	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 533	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 541	QRD161J-123	CARBON RESISTOR	12K 5% 1/6W	
	R 542	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 543	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 544	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 545	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 548	QRD161J-153	CARBON RESISTOR	15K 5% 1/6W	
	R 549	QRD161J-821	CARBON RESISTOR	820 5% 1/6W	
	R 550	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 551	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 552	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 553	QRD161J-821	CARBON RESISTOR	820 5% 1/6W	
	R 555	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 559	QRD161J-125	CARBON RESISTOR	1.2M 5% 1/6W	
	R 561	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 562	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 563	QRD161J-152	CARBON RESISTOR	1.5K 5% 1/6W	
	R 564	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 565	QRD161J-683	CARBON RESISTOR	68K 5% 1/6W	
	R 566	QRD161J-273	CARBON RESISTOR	27K 5% 1/6W	
	R 583	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 591	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 611	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	

BLOCK NO. 03

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 612	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 613	QRD161J-224	CARBON RESISTOR	220K 5% 1/6W	
	R 614	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 615	QRD161J-225	CARBON RESISTOR	2.2M 5% 1/6W	
	R 616	QRD161J-333	CARBON RESISTOR	33K 5% 1/6W	
	R 631	QRD161J-820	CARBON RESISTOR	82 5% 1/6W	
	R 638	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 639	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 651	QRD161J-820	CARBON RESISTOR	82 5% 1/6W	
	R 652	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 653	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 661	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 662	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 663	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 664	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 665	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 667	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	R 671	QRD161J-472	CARBON RESISTOR	4.7K 5% 1/6W	
	R 672	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 673	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 674	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 675	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 677	QRD161J-122	CARBON RESISTOR	1.2K 5% 1/6W	
	VR501	QVZ3523-154AZ	V.RESISTOR	TRACKING	
	X 601	CSA8.46MT	CERAMIC RESONA	8.46MHZ	

Tuner board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BLOCK NO. 04

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	C 067	QCBB1HK-101Y	C.CAPACITOR	100PF 10% 50V	
	C 068	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	C 069	QCXB1CM-222Y	C.CAPACITOR	2200PF 20% 16V	
	C 096	QETC1HM-334ZN	E.CAPACITOR	.33MF 20% 50V	
	C 099	QCBB1HK-151Y	C.CAPACITOR	150PF 10% 50V	
	CF 01	VCF2L3B-108Z	CERAMIC FILTER		
	CF 02	VCF2L3B-108Z	CERAMIC FILTER		
	CF 03	VCF1Z2Z-115Z	CERAMIC FILTER		
	CF 04	CSB456F15	CERA LOCK		
	CN 01	QMV5011-005	CONNECTOR	TUNER TO MAIN	
	CN 02	VMC0063-005	CONNECTOR	TO MICON	
	D 001	SVC203SPA-AB-AL	VARI CAP		
	D 002	SVC203SPA-AB-AL	VARI CAP		
	D 003	1SS133	SI DIODE		
	D 004	1SS133	SI DIODE		
	D 005	1SS133	SI DIODE		
	D 006	1SS133	SI DIODE		
	D 007	1SS133	SI DIODE		
	D 008	SVC346S2-AA	VARI CAP		
	IC 01	TA7358P(N)	IC		
	IC 02	LA1832	IC	DET/MPX/	
	IC 03	TC9216P	IC	PLL	
	L 001	VQF1B20-017	OSC COIL	FM OSC	
	L 002	VQF1B20-015	OSC COIL	FM RF	
	L 003	VQB808M-504E	BAR ANTENA	MW RF	
	L 004	VQM7U02-407S	OSC COIL(MW)	MW OSC	
	L 007	VQP0018-4R7	INDUCTOR		
	L 008	VQP0018-221	INDUCTOR		
	L 009	VQP0018-4R7	INDUCTOR		
	L 012	VQC1505-001	RF COIL		
	Q 001	2SC1923	TRANSISTOR		
	Q 007	2SC2668(O)	TRANSISTOR		
	Q 008	BA1A4P	TRANSISTOR		
	Q 009	DTA114YS	TRANSISTOR		
	Q 010	DTA114TS	TRANSISTOR		
	Q 011	2SA1175	TRANSISTOR		
	Q 012	2SC2785	TRANSISTOR		
	Q 013	2SC2785	TRANSISTOR		
	R 001	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 002	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 003	QRD167J-4R7	CARBON RESISTOR	4.7 5% 1/6W	
	R 004	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 005	QRD161J-823	CARBON RESISTOR	82K 5% 1/6W	
	R 006	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 007	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 008	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 009	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 010	QRD161J-101	CARBON RESISTOR	100 5% 1/6W	
	R 013	QRD161J-104	CARBON RESISTOR	100K 5% 1/6W	
	R 015	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 017	QRD161J-560	CARBON RESISTOR	56 5% 1/6W	
	R 022	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 023	QRD161J-752	CARBON RESISTOR	7.5K 5% 1/6W	
	R 024	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 025	QRD161J-394	CARBON RESISTOR	390K 5% 1/6W	

BLOCK NO. 04

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	SUFFIX
	R 026	QRD161J-390	CARBON RESISTOR	39 5% 1/6W	
	R 027	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 028	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 029	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 030	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 031	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 032	QRD161J-302	CARBON RESISTOR	3.0K 5% 1/6W	
	R 033	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 034	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 035	QRD161J-223	CARBON RESISTOR	22K 5% 1/6W	
	R 036	QRD161J-392	CARBON RESISTOR	3.9K 5% 1/6W	
	R 037	QRD161J-563	CARBON RESISTOR	56K 5% 1/6W	
	R 039	QRD161J-331	CARBON RESISTOE	330 5% 1/6W	
	R 040	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 041	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 042	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 044	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	R 048	QRD167J-562	CARBON RESISTOR	5.6K 5% 1/6W	
	R 049	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 052	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 053	QRD161J-471	CARBON RESISTOR	470 5% 1/6W	
	R 054	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 055	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 056	QRD167J-332	CARBON RESISTOR	3.3K 5% 1/6W	
	R 057	QRD161J-102	CARBON RESISTOR	1.0K 5% 1/6W	
	R 058	QRD161J-473	CARBON RESISTOR	47K 5% 1/6W	
	R 076	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 077	QRD161J-222	CARBON RESISTOR	2.2K 5% 1/6W	
	R 096	QRD161J-103	CARBON RESISTOR	10K 5% 1/6W	
	T 001	VQT7F12-110	IFT	FM IF	
	T 002	VQT7A21-107	IFT		
	TC 02	QAT3722-100M	T.CAPACITOR	MW RF	
	TP 01	VMZ0015-002	POST PIN	TO ROD ANT	
	X 001	V472124-A0	CRYSTAL		

9 Exploded View of CD Mechanism Component Parts

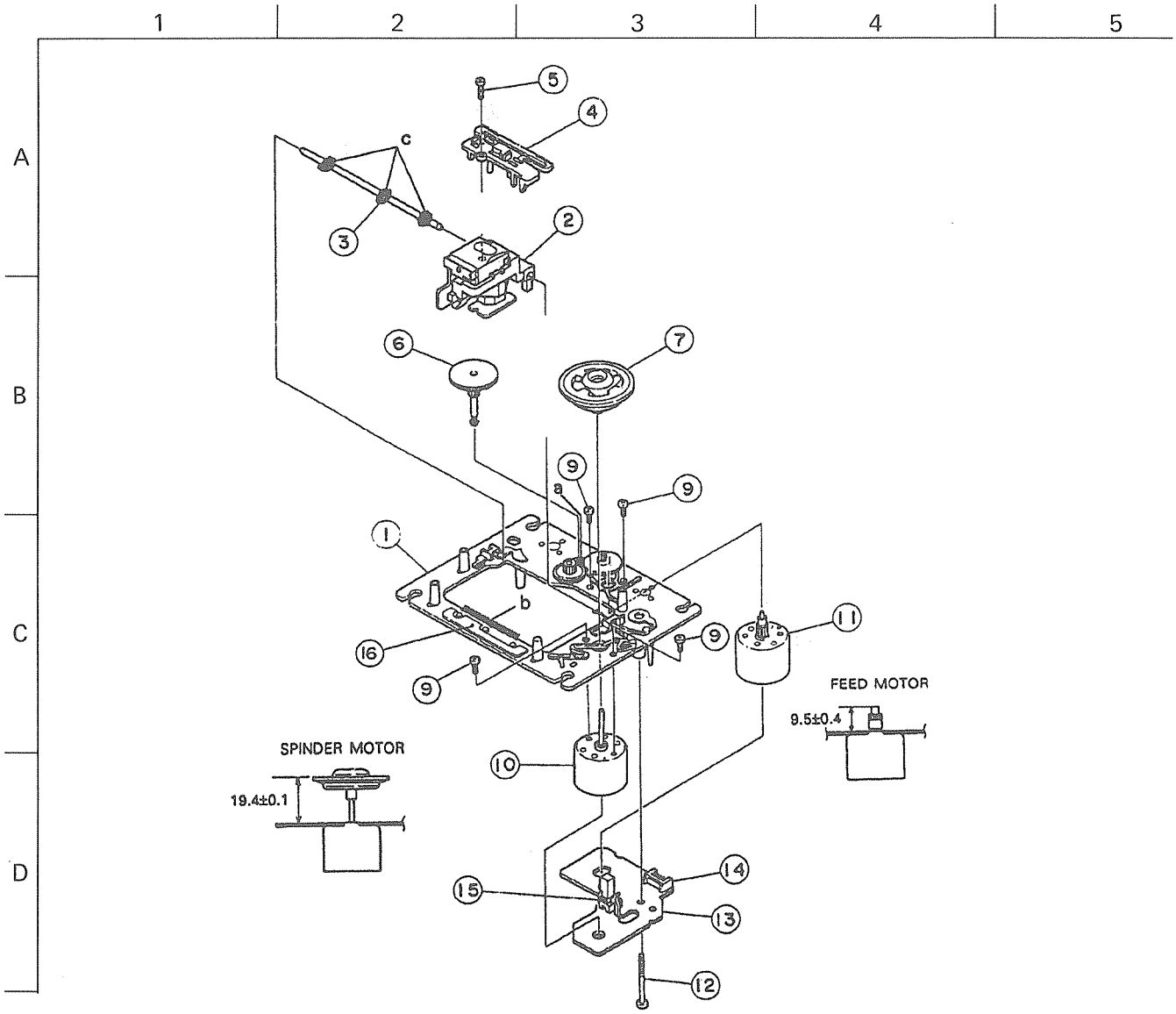


Fig. 9-1

■ CD Mechanism Component Parts

BLOCK NO. M3MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	EPB-002A	MECHA BASE ASSY		1		
	2	OPTIMA-6S	PICK UP ASS'Y		1		
	3	E406777-001	GUIDE SHAFT		1		
	4	E307746-001	CD RACK		1		
	5	SDSF2006Z	SCREW	CD LACK ASS'Y	1		
	6	EPB-003A	MECHA GEAR		1		
	7	E75807-301	CD T.TABLE ASSY		1		
	9	SDSP2003N	SCREW	FOR MOTOR	1		
	10	E406783-001	SP MOTOR	SPINDL MOTOR	1		
	11	E406784-001SA	DC MOTOR ASS'Y	FEED MOTOR	1		
	12	E75832-001	S.SCREW	M.REAF SWITCH	1		
	13	EMW10190-001	BOARD	LEAF SWITCH	1		
	14	EMV5109-006B	6P PLUG ASS'Y		1		
	15	ESB1100-005	LEAF SWITCH		1		
	16	E407212-001	DAMPER		1		

10 Exploded View of Enclosure Component Parts and Parts List

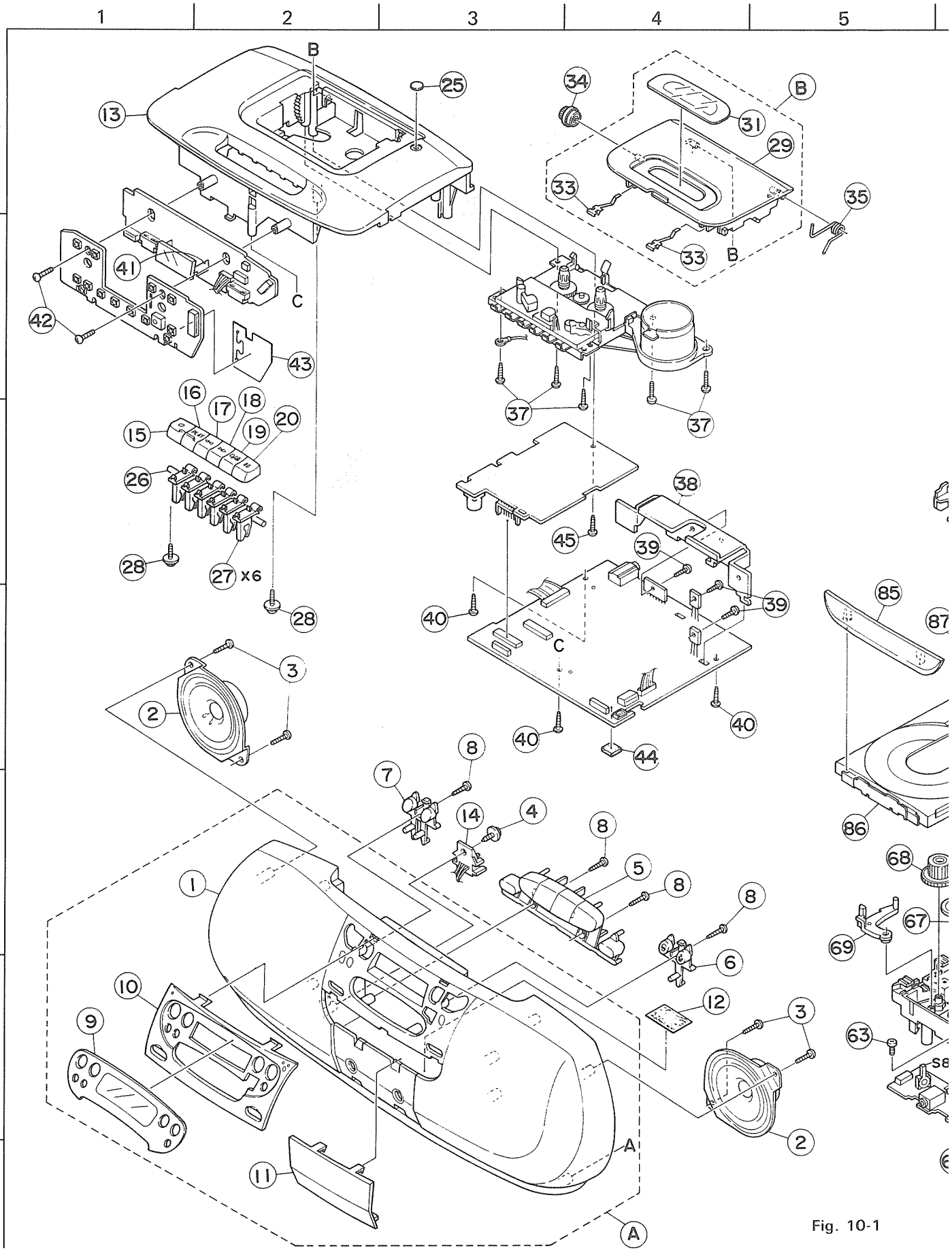
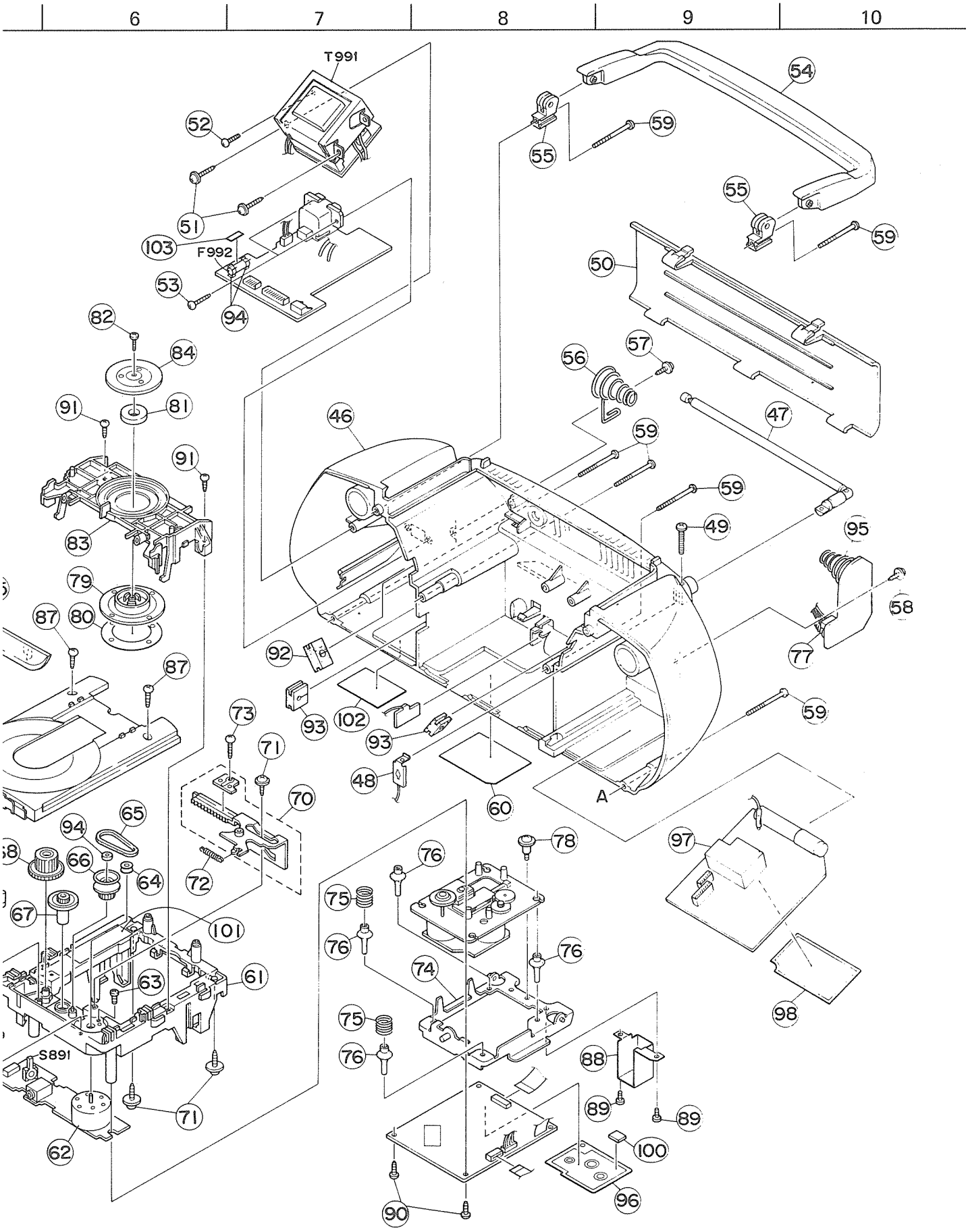


Fig. 10-1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● Enclosure component parts list

BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A	ZCRCQS11K-FB	FRONT CANIMET	1,9-11	1		
	B	ZCRCQS11K-CB	C.DOOR ASS'Y	29,31,33	1		
	1	VJG1279-00A	FRONT PANEL SA	ASSEMBLY PARTS	1		
	2	VGS1001-020	SPEAKER		2		
	3	SBSF3010Z	SCREW	SPEAKER	4		
	4	E65923-004	TAPPING SCREW		1		
	5	VXP2087-002	BUTTON	CD/TUNER BUTTON	1		
	6	VXP3651-003	BUTTON	VOLUME	1		
	7	VXP3651-004	BUTTON	POWER SUPPLY	1		
	8	SBSF3010Z	SCREW	BOTTON	4		
	9	VJK3640-002	LCD LENS	FRONT COVER A	1		
	10	VJD2444-001MM	FRONT COVER(A)	MIPS SILK X 1	1		
	11	VJD2442-001	FRONT COVER(B)		1		
	12	VYSA1R6-063	SPACER		1		
	13	VJD1187-001MM	TOP COVER	MIPS SILK X 1	1		
	14	VDM5183-001D	WIRE&TUBE		1		
	15	VXP2090-001	MECHA.BUTTON	REC	1		
	16	VXP2090-002	MECHA.BUTTON	PLAY	1		
	17	VXP2090-003	MECH BUTTON	REW	1		
	18	VXP2090-004	MECH BUTTON	FF	1		
	19	VXP2090-005	MECH BUTTON	STOP/EJECT	1		
	20	VXP2090-006	MECH BUTTON	PAUSE	1		
	25	VJD5458-001	PLATE		1		
	26	VYH7877-002	SHAFT		1		
	27	VYH7883-001	BUTTON LEVER		6		
	28	E65923-003	TAPPING SCREW		2		
	29	VJT2342-001	CASSETTE DOOR	PS	1		
	31	VJT4215-001	DOOR LENS	PVC T0.5 SILK	1		
	33	VKY4180-001	CASSETTE SPRING		2		
	34	VYH7366-001MM	GEAR		1		
	35	VKW5144-002	DOOR SPRING	SUS	1		
	37	SBSF3010Z	SCREW	TOP+MECHA+PWB	3		
	38	VYH3831-001	HEAT SINK		1		
	39	SBSF3008Z	SCREW		3		
	40	SBSF3010Z	SCREW	MAIN+TOP COVER	3		
	41	VYH7880-001	LCD HOLDER		1		
	42	SBSF3010Z	SCREW	SW PWB+TOP COVE	2		
	43	VYH7901-001	PROTECTOR	FOR SWITCH BOAR	1		
	44	VYSH103-089	SPACER	FOR CD NOISE	1		
	46	VJG1281-005	REAR CABINET	MIPS	1		
	47	VJA3033-00A	T. ANT ASS'Y		1		
	48	VYH7878-001	TERMINAL LUG	ANTENNA	1		
	49	SDSP3012N	SCREW	T. ANTENNA	1		
	50	VJC2505-001	BATTERY COVER	MIPS	1		
	51	GBSF3016Z	SCREW	P. TRANSFORMER	2		
	52	SBSF3010Z	SCREW	P. TRANSFORMER	1		
	53	SBSF3010Z	SCREW	AC JACK	2		
	54	VJH2012-002	HANDLE	ABS	1		
	55	VYH7845-002	HANDLE SUPPORTE	POM	2		
	56	VYH5657-002	BATTERY SPRING	POM	1		
	57	E65923-004	TAPPING SCREW	BATT.SPRING	1		
	58	E65923-004	TAPPING SCREW	BATT PCB	1		
	59	SBSF3050Z	SCREW	FRONT+REAR	6		
	60	VYN5183-M005T	NAME PLATE		1	E,EN	
		VYN5183-M008T	NAME PLATE		1	G	

BLOCK NO. M1MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
		VYN5183-M015T	MANE PLATE		1	GI	
		VYN5183-M002T	NAME PLATE		1	B	
	61	VYH1238-001	LOADING BASE	ABS	1		
	62	MMN-6F1LB8K	MOTOR		1		
	63	SPSK2640Z	MINI SCREW	LOADING MOTOR	2		
	64	E75984-221	MOTOR PULLEY		1		
	65	E75950-002	BELT		1		
	66	E75985-221	OSC COIL		1		
	67	E75986-221SS	OSC COIL	PBT	1		
	68	E75987-221SS	OSC COIL		1		
	69	E307162-331	OSC COIL		1		
	70	E307252-331	CAM-PLATE		1		
	71	E65923-003	TAPPING SCREW		3		
	72	VYH7787-001	SPRING		1		
	73	SBSF3008Z	SCREW		1		
	74	E307179-332	E.BASE ASS'Y		1		
	75	E406871-001	SPRING		2		
	76	E406294-002	INSULATOR		4		
	77	VYH7199-001	BATTERY SPRING	FOR R6	1		
	78	E406293-001	SPECIAL SCREW		1		
	79	VYH3680-001	CLAMPER		1		
	80	VYH7315-005	PAD		1		
	81	VYH7313-001	MAGNET		1		
	82	GBSF2606Z	SCREW	CLAMPER	1		
	83	VYH2286-001	CLAMPER BASE	MIPS	1		
	84	VYH3764-001	CLAMPER PLATE		1		
	85	VJT3362-003	CD FITTING	CD TRAY	1		
	86	VYH1240-001	TRAY	PS	1		
	87	SBSF3008Z	SCREW	TRAY STOPPER	2		
	88	VMA4619-002	SHIELD CASE		1		
	89	SDSR2606Z	SCREW	SHIELD CASE	2		
	90	SBSF3008Z	SCREW	CD AMP+L.BASE	2		
	91	SBSF3008Z	SCREW	C.BASE+L.BASE	2		
	92	VYH7666-001	BUSHING(L)		1		
	93	VYH7667-001	BUSHING(R)		2		
	94	E60912-005SS	SPEED NUT		1		
	95	VYH5483-001	SPRING	FOR R20	1		
	96	VMA4620-001	SHIELD		1		
	97	VMA4589-002	SHIELD CASE		1		
	98	VMA4548-001	SHIELD		1		
	100	PU59915-105	SPACER	SHIELD	1		
	101	E406709-001	LASER CAUTION		1		
	102	E70891-001	CLASS 1 LABEL		1		
⚠	103	VND4003-083	FUSE LABEL	F992	1		
⚠	F 992	QMF51E2-3R15J1	FUSE	2ND	1		
⚠	T 991	VTP57T2-12D	POWER TRANS	AC 240V	1		

11 Exploded View of Cassette Mechansim Component Parts and Parts

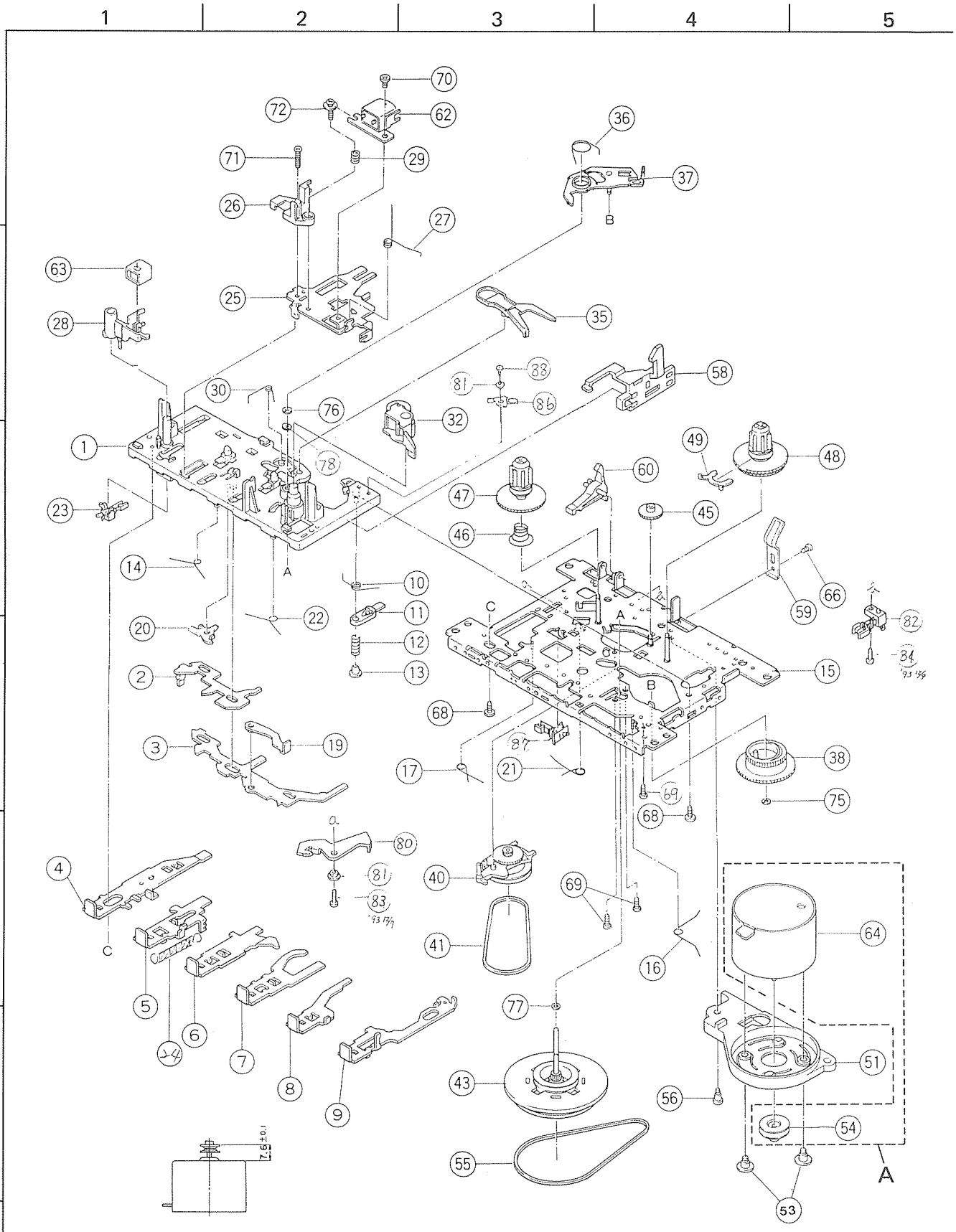

Fig. 11-1

arts List

Cassette mechanism component parts list

BLOCK NO. M2MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	1	192114301ZT	BASE ASS'Y		1		
	2	19211409T	SWITCH ACTUATOR		1		
	3	19211408T	LOCK CAM		1		
	4	19211422T	BUTTON LEVER		1		
	5	19211423T	BUTTON LEVER		1		
	6	19211424T	BUTTON LEVER		1		
	7	19211425T	BUTTON LEVER		1		
	8	19211426T	BUTTON LEVER		1		
	9	19211461T	BUTTON LEVER		1		
	10	19211413T	P CONT. SPRING		1		
	11	19211455T	PAUSE LEVER (E)		1		
	12	19211412T	SPRING		1		
	13	19211411T	PAUSE STOPPER		1		
	14	19211414T	TORSION SPRING		1		
	15	192101501ZT	CHASSIS ASS'Y		1		
	16	19211416T	TORSION SPRING		1		
	17	19211417T	TORSION SPRING		1		
	19	182101159T	E KICK LEVER		1		
	20	19211420T	STOPPER		1		
	21	19211421T	TORSION SPRING		1		
	22	19211415T	TORSION SPRING		1		
	23	MSW-1541T	LEAF SWITCH	MSW-1541T	1		
	24	18210150T	PLAY BUTTON LEV		1		
	25	19210311T	HEAD PANEL		1		
	26	19210304AT	HEAD BASE		1		
	27	19210309T	PANEL P SPRING		1		
	28	19210305T	MAGNET HEAD ARM		1		
	29	18210307T	AZIMUTH SPRING		1		
	30	19211418T	TORSION SPRING		1		
	32	192104309T	P.ROLL. ARM ASY		1		
	35	19212604TT	SENSING LEVER		1		
	36	19212605T	TORSION SPRING		1		
	37	192126502ZT	GEAR PLATE ASSY		1		
	38	19212602T	CAM GEAR		1		
	40	192107308T	RF CLUTCH ASS'Y		1		
	41	18210711T	RF BELT		1		
	43	192109303ZT	FLYWHEEL ASS'Y		1		
	45	18211070T	F.FORWARD GEAR		1		
	46	18211099T	BACK TENSION SP		1		
	47	192105304T	S. REEL ASS'Y		1		
	48	192105303T	T. REEL ASS'Y		1		
	49	19210506T	SENSOR		1		
	51	19211208T	MOTOR BRACKET		1		
	53	19211202T	COLLAR SCREW		2		
	54	19211201T	MOTOR PULLEY		1		
	55	19210924T	MAIN BELT		1		
	56	19211203T	MB SCREW		1		
	58	19211301T	EJ. SLIDE LEVER		1		
	59	18291001T	PACK SPRING		1		
	60	18211069T	REC.SAF.LEVER		1		
	62	MS15R-AA2N1	R/P HEAD	MS15R-AA2N1	1		
	63	PHK-MSI-6A	E HEAD	PH-K380-MS16A	1		
	64	60020218T	MOTOR	EG530AD-9F	1		
	66	91790000T	TAPPING SCREW	M2 X 3	1		
	A	1921123026T	MOTOR ASS'Y	NO.54 and No.64			

BLOCK NO. M2MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	68	96790000T	TAPPING SCREW	M2 X 5	2		
	69	99991809T	SPECIAL SCREW	M2 X 4.5	3		
	70	91150000T	SCREW(M2 X 3)	M2 X 3	1		
	71	90040000T	SCREW(M2 X 6)	M2 X 6	1		
	72	99220000T	SCREW(M2 X 7)	M2 X 7	1		
	75	94220000T	P.WASHER	1.2X3.8X0.3	1		
	76	99990313T	POLY.CUT WASHER	1.45X3.8X0.5	1		
	77	98820000T	POLY.WASHER	2 X 3.5 X 0.4	1		
	78	99990003T	POLYSLIDER WAS.	2.1 X 7 X 0.13	1		
	80	19210201T	REC ARM		1		
	81	19211437T	P ARM COLLAR		2		
	82	64010138T	LEAF SWITCH	MSW-1275	1		
	83	91800000T	SCREW	M2 X 4	1		
	84	91810000T	SCREW	M2 X 5	1		
	86	19211434T	P.ROLLER ARM		1		
	87	640101161T	LEAF SWITCH	MSW-17820MVDO	1		
	88	99992041T	SPECIAL SCREW	M2 X 3	1		

12 Illustration of Packing and Parts List

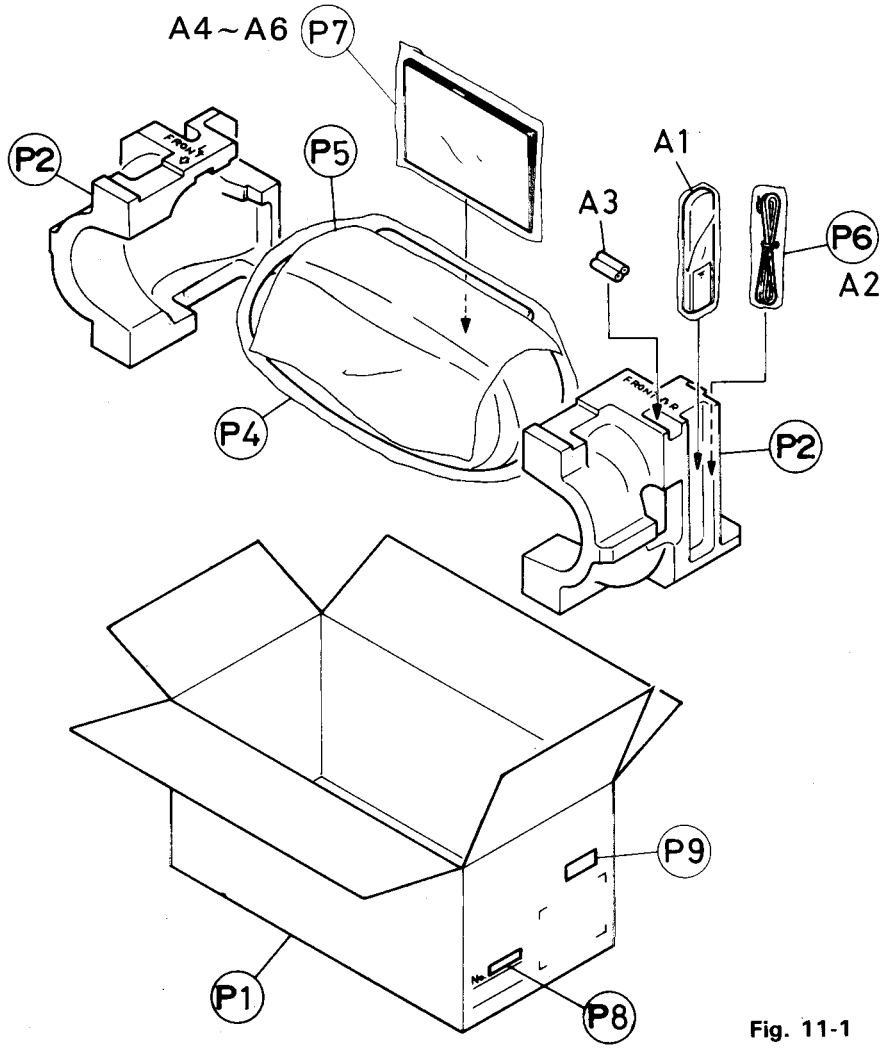

Fig. 11-1

● Packing parts list

BLOCK NO. M4MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	P 1	VPC5183-103	CARTON		1		
	P 2	VPH2471-00A	CUSHION ASS'Y		1		
	P 4	VPE3020-028	POLY BAG	FOR SET	1		
	P 5	VPK4002-011	SHEET		1		
	P 6	QPGA012-02505	POLY BAG	FOR POWER CORD	1	E,G,EN,GI	
		QPGA015-03503	POLY BAG	FOR POWER CORD	1	B	
	P 7	VPE3005-007	POLY BAG	FOR INSTRUCTION	1		
	P 8	VND3044-001	SERIAL LABEL		1	GI	
		VND3044-003	SERIAL LABEL		1	E,EN	
		VND3044-005	SERIAL RABEL		1	G	
		VND3044-004	SIRIAL LABEL		1	B	
	P 9	VND3025-215	UPC/EAN CORD LA		1		

● Accessories list

BLOCK NO. M4MM

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY	SUFFIX	CLR
	A 1	VGR0030-101	REMO-CON UNIT		1		
	A 2	QMP39F0-183	POWER CORD		1	E,G,EN,GI	
		QMP5520-183BS	POWER CORD		1	B	
	A 3	UM-3(DJ)-2PSA	BATTERY	R03	2		
	A 4	VNN5183-261M	INSTRUCTIONS		1	E,G,EN	
		VNN5183-271M	INSTRUCTIONS		1	EN	
		VNN5183-251M	INSTRUCTIONS		1	B,GI	
	A 5	BT-20066A	WARRANTY CARD		1	B	
		BT20060	WARRANTY CARD		1	B	
		BT-20135	WARRANTY CARD		1	G	
	A 6	E43486-340B	SAFETY INST SHE		1	B	

JVC
VICTOR COMPANY OF JAPAN, LIMITED
AUDIO PRODUCTS DIVISION 10-1, 1-chome, Ohwatari-machi, Maebashi-city, Japan

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